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Mr Pearson, Gun Mr. The Chemist
THE CHEMIST AND DRUGGIST, NOVEMBER 9, 1929.



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NOVEMBER 9, 1929.

Vol. CXI.



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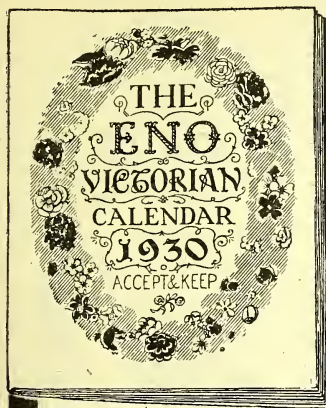
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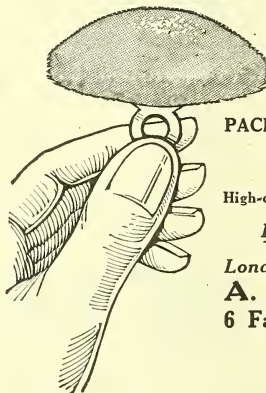
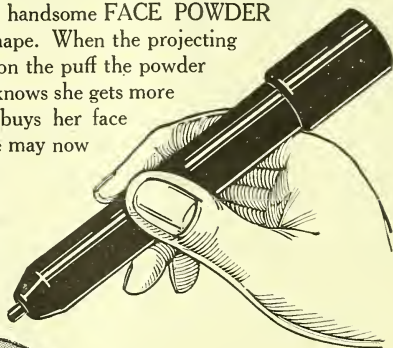
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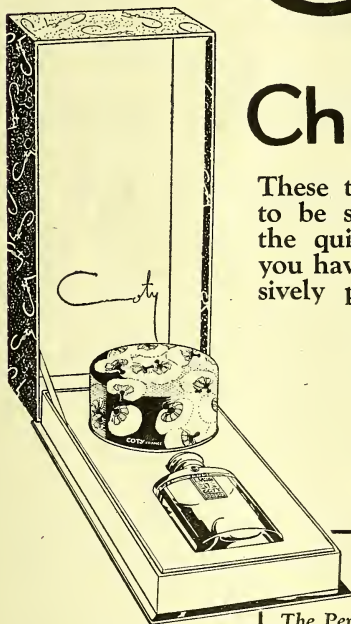
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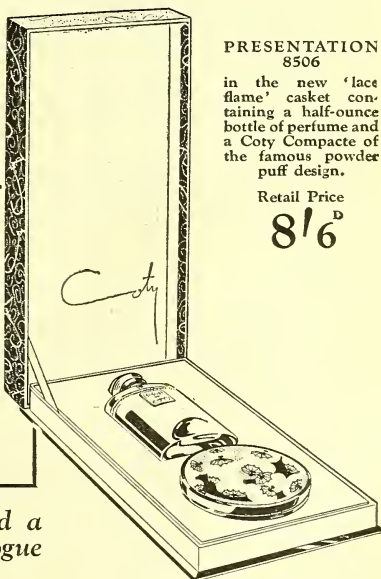
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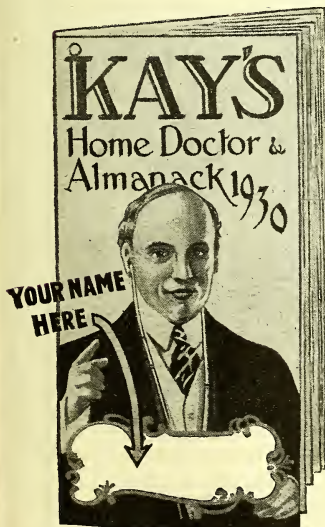
IMPORTANT—A New Showroom is now open at our Works.

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C.D.T.

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OF THE OAK



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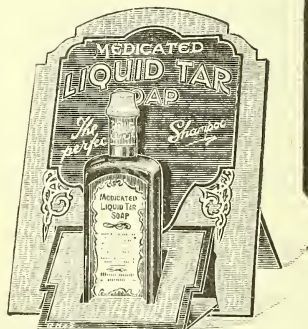
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Maw's Page



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And every time a sale is made you derive a double satisfaction: the assurance that you have served your customer well and the knowledge that you have secured a fair return for your service.

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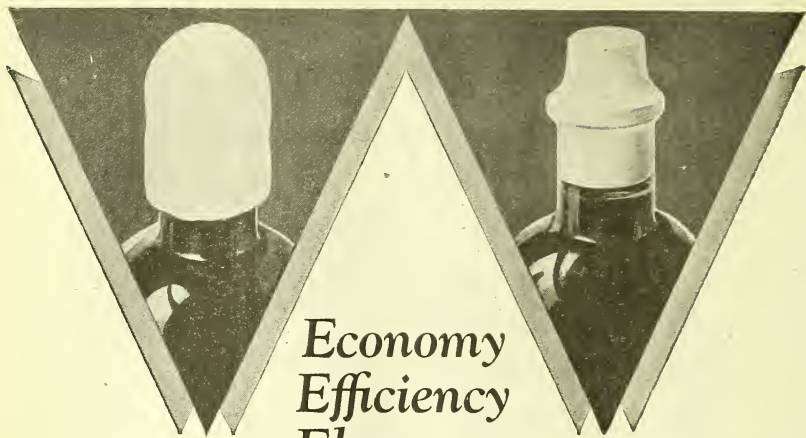
You can recommend Maw's Drip-Feed Lamp with every confidence, secure in the knowledge that it has the approval of the medical profession and that it will more than justify the claims made for it.

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
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*are wonderfully economical
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Perfumes and all Toilet
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houses to introduce these
delightful Perfumes, and
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apply for quotations and
samples.*



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Kirsch - - - 5 - "

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Maraschino - - - 5 - "

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Gin (Hollands) - 5 - "

Vermouth - - - 5 - "

*Chartreuse Type - 5 - "

* These are Registered Titles.

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4. It is sanitary—protects the pouring edge of the bottle.
5. It prevents leaking under any condition.
6. It makes a neater and more distinctive package.
7. It cuts capping costs and makes for factory saving.
8. It does away with corking—wiring—waxing and other combinations.
9. It provides an unusually attractive advertising opportunity. Your name or trade mark may be lithographed in colours on Kork-N-Seal. This gives you an advertisement that will last long after the contents of the bottle are used.
10. The position of the little lever is a "danger signal" that indicates at a glance whether the bottle is sealed or not. No other bottle closure has this feature.

British made throughout at our own Works, Charlton, S.E.7.

WHEN the all-important question of closures arises, study Kork-N-Seal. Its use means simple opening and perfect re-sealing, lasting advertisement, better finish and a splendid selling point. Thousands of modern manufacturers now use Kork-N-Seal exclusively. May we discuss its application to your product?

KORK-N-SEAL LTD.

Manufacturers of Aluminium, and decorated Tin closures of every description.

40-43, NORFOLK ST., STRAND, LONDON, W.C.2.

Telephone: Temple Bar 6680. Telegrams: Korkanseal, Estrand, London.



The Logical closure for

Catsup	Flavourings	Proprietary Medicines
Solid Dressing	Malt	Medicinal Wines
Vinegar	Toilet Articles	Furniture Polish
Olive Oil	Antiseptics	Shoe Polish
Mustard	Serums	Stains
Sisal Oil	Disinfectants	Oils
Olive	Citrate of	Shellac
Horseradish	Magnesia	Varnish
Fruit Juices	Effervescent	Dyes
Syrups	Salts	Cleaning Fluids
Extracts	Pharmaceutical preparations	Ammonia
		Peroxide

And all products used gradually.

Patents
1926
1927
1928

The "Ayrton Oval"

(THE FINEST BOTTLE
IN PHARMACY)

*washed
sterilized
top papered
in sealed cartons
at*

NO EXTRA COST



Every **AYRTON OVAL** ready for Immediate Use,
Packed in Sealed Non-returnable Fiberite Packing Boxes

	1 oz.	2 oz.	3 oz.	4 oz.	6 oz.	8 oz.	10 oz.	12 oz.	16 oz.	20 oz.
Per gross, ex stock -	16/6	18/3	19/6	22/9	25/-	27/-	33/-	38/-	43/-	48/-
ex works -	14/3	16/-	18/6	20/6	22/-	24/-	28/6	32/6	36/-	40/-
Contents of box -	2 gr.	1½ gr.	1 gr.	1 gr.	½ gr.	½ gr.	4 doz.	4 doz.	4 doz.	3 doz.

Minimum quantity ex works, 5 gross: carriage paid home in England, Scotland, Wales and Isle of Man, or free on quay at main Irish ports

A YRTON, SAUNDERS & CO., LTD.

Everything Pharmaceutical to Every Part of the World

34 Hanover Street

LIVERPOOL, ENGLAND



**ROBINSON'S of
CHESTERFIELD**
for
**CARDBOARD
BOXES**
ROUND • OVAL • SQUARE • FOLDING
ROBINSON & SONS LTD.
CHESTERFIELD & LONDON



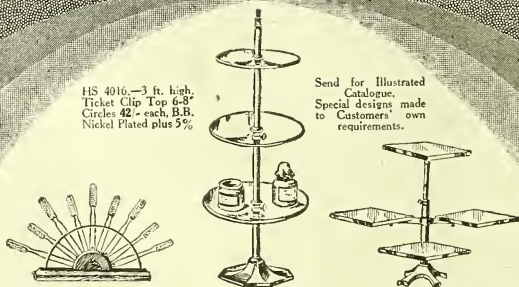

BEADED BOXES

The boxes illustrated above are finding increasing favour amongst chemists. They are dust-proof and air-tight and of a very attractive appearance. Fitted with a flanged metal lid which is easily lifted out they form a very useful container. Blank panel on reverse side for printing in Customer's name and address.

ROBINSON & SONS, Ltd.
Manufacturers of ROUND, OVAL, SQUARE AND FOLDING
CARDBOARD BOXES.

CHESTERFIELD

MAKE THE MOST OF YOUR STOCKS



HS 4010.—3 ft. high.
Ticket Clip Top 6-8"
Circles 42" each, B.B.
Nickel Plated plus 5%

Send for Illustrated
Catalogue.
Special designs made
to Customers' own
requirements.

HS 4020.—Tooth Brush
Stand. Very stable—Useful
for window or counter use.
Base of Fumed Oak, metal
parts finished nickel plate.
Price 5/6 each.

Haskins

SHOPFRONTS AND FITTINGS

Saml. Haskins & Bros., Ltd.

Branches:

GLASGOW
MANCHESTER

Display Department:

4 & 5 DOWLING ST. (close GOSWELL ROAD), E.C.1

TELEPHONE: CLERKENWELL 3405

HS 4030.—The "Small-
Ware" Stand. Telescoping
to 18", Style A. 41"
base and four diamond-
shaped shelves, each 7" x
5", and three patent "Tiny
T" brackets. Price 22/6.

Head Office & Works:
WALTHAMSTOW
LONDON, E.17

1 FORMULA

2 COATING

3 FINISH

4 PROFIT

5 DISPLAY

- 1. THE FORMULA** is of undoubted efficacy, as is proved by the growing demand for Emulsion Pastilles after many years of public trial.
- 2. THE COATING** is one that was invented by us many years ago. It is always pleasant to taste and smell.
- 3. THE FINISH** is hard and glossy and literally reflects the quality of the pastilles themselves.
- 4. THE PROFIT** is on unusually generous lines. Buying on the most favourable terms shows 50% on selling price.
- 5. THE DISPLAY** facilities include cut-stoppered showjar, panel show-cards, counter stands for "marble" tins and an exceptionally effective window display.

EMULSION ANTISEPTIC THROAT PASTILLES

GOOD PASTILLES, well displayed in due season, are more than half sold. Every passer-by needs them and the "Castle" window-show is an ideal method of bringing the need home to your customers—and to those whom you would like to become customers. No one passing your window could fail to see and to appreciate such an imposing display. Illustration and full particulars on request.

To EXPORT BUYERS—All orders and enquiries should be addressed to our Sole Export Agents
Wm. ALFRED JONES, Ltd., West India House, Liverpool

THOMAS KERFOOT & CO. LTD.
BARDSELY VALE, LANCASHIRE.
& Bardsley House, London, N.1
ESTABLISHED 1797

D/423

MYSORE GOVERNMENT SANDALWOOD OIL

DISTILLED FROM SANTALUM ALBUM, LINN.

This Mark is the



GUARANTEE

Trade Commissioner for Mysore in London
Grand Buildings, Trafalgar Square, LONDON, W.C.2

Telephone : Gerrard 4412.

FLORA SYNTHETIC FLOWER OILS

CARNATION 1209. *True odour of Pink Carnation*
GARDENIA 1403. *For Fancy Bouquets*
HELIOTROPE 1408. *For Powders & Creams. Does not discolour*
HONEYSUCKLE. S. *True to the Flower*
JASMIN. Special. *Great Yield*
JASMIN 1313. *Jasmin Type, colourless*
LILAC 1456. *Useful in Creams & Floral Bouquets*
MAY LILY. *Excellent Product. Useful in Creams*
NEROLI. R. *Substitute for Natural Oil*
ROSE ORIENTAL. *Replaces Bulgarian Otto*
ROSE 1273. *Red Rose*
ROSE 1406. *For Brilliantines*
SWEET PEA 1289. *The true Fragrance*
WOOD VIOLET. *Of rare Odour*
VIOLET. N.A. *For Powders and Creams*
WALLFLOWER 1458. *True Odour*

CHAS. ZIMMERMANN & CO. (Chemicals), LTD.
St. Mary-at-Hill, London, E.C.3.

Sunshine Remedies

including the now famous

ANTI-ACID TABLETS
"TOXINICON"
for Rheumatic diseases

GOLDEN-RAY
SHAVING SOAP
the only soap with an Antiseptic Vaseline centre.

SOLEIL D'OR PERFUME
AND TOILET PREPARATIONS

WRITE FOR DESCRIPTIVE BOOKLET

Sunshine Remedies Ltd.
8 West Halkin Street, S.W.1
Telephone : Sloane 4133.

LONDON CHEMISTS ARE INVITED TO SEND
THEIR "SUNRAY" PATIENTS TO OUR PRIVATE
ROOMS. TRAINED STAFF IN ATTENDANCE.
Write for particulars



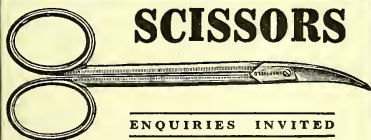
GUARANTEED PURE ENGLISH PEPPERMINT OIL

Grown & Distilled from Mitcham Plants

By

Chivers & Sons Ltd.,
Histon, Cambridge, England.

SAMPLE AND QUOTATION ON REQUEST FROM THE SOLE SELLING AGENTS
BRUCE STARKE & CO., 16 WATER LANE, GREAT TOWER ST., LONDON, E.C.3



SCISSORS

ENQUIRIES INVITED

GILL, HERBERT & CO., Ltd.

CUTLERY MANUFACTURERS,
Wheeldon Street, SHEFFIELD

HAIR

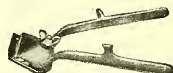
BURMAN

CLIPPERS

For SURGICAL
and VETERINARY
PURPOSES.

HAIRDRESSERS' CLIPPERS

The British-Made
Hair Clipper.



Dainty Shingling
Clippers for
Ladies' use.

BURMAN & Sons, Ltd., BIRMINGHAM

AVA LTD. require Representative for West End of London.

Must have long-standing High-class Chemists' connection.

Splendid prospects for the right man.

Apply, by letter only, giving fullest particulars { **32 CRAVEN STREET,**
Charing Cross, W.C.2,

MERCOLIZED WAX

— : for the Complexion : —

and

STALLAX

— : a Shampoo : —

TWO substantial and well-advertised lines which show a handsome profit to the Retailer, and, moreover, may be stocked fearlessly owing to the Manufacturers' most liberal Sale or Return Guarantee.

Both are obtainable in two sizes, and their reputation and sterling value assure a steady turnover.

Order through your Wholesaler, or direct from :

DEARBORN (1923) LIMITED

37 GRAY'S INN ROAD,

LONDON, W.C.1.

Telephone

HOLBORN 9669

SALES INCREASING—

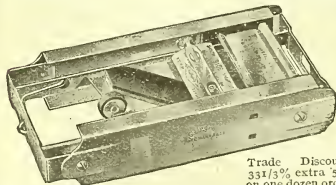
Are you getting your share of the increased sales we are creating by our National Advertising Campaign? Put the "Allegro" in your window, show that you are stocking it, and make good profits.



THE "Allegro"
AUTOMATIC HONING & STROPPING MACHINE

State when ordering if for Gillette type of blade

or Auto-strop or Durham Duplex or Wade & Butcher.



Retails at 15/6d.

The "ALLEGRO" combines in one machine the STONE for HONING and the LEATHER for STROPPING—All edges automatically put in contact with the sharpening bodies, are sharpened at the correct cutting angle—The most efficient machine—What a man really wants for a smooth shave, and yet—using the same blade indefinitely.

ALLEGRO MACHINE CO., 23a Old Bond St., London, W.1.

Trade Discount 33 1/3% extra 5% on one dozen order



A
**KEEN
BLADE
AT A
KEEN
PRICE**

The Blade that SELLS as it SHAVES—
"LIKE GREASED LIGHTNING!"

Obtainable from all Leading Wholesalers.

Dept. C.D. "Wanle" Distributors:
c/o ROEBUCK'S ADVERTISING SERVICE
Salisbury Square House, Salisbury Sq., Fleet St., London, E.C.4

For 136 years

Rowland's Macassar Oil has been a favourite dressing for the hair. It keeps the hair healthy, and prevents the encroachment of greyness and baldness.

Of all Wholesalers.

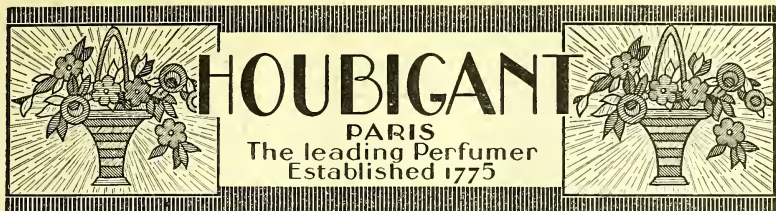


**Rowland's
Macassar Oil**

RETAIL
3/6, 7/- & 10/6
P.A.T.A.

Red for
dark hair
Golden
for fair or
grey hair

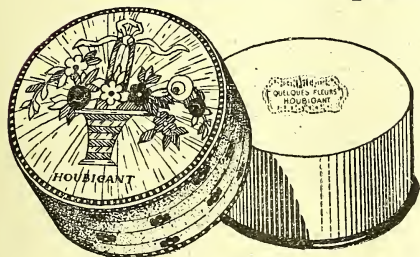
A. ROWLAND & SONS, Ltd., 112 Guilford St., London, W.C.1



A MESSAGE

TO ALL CHEMISTS & PERFUMERS

DO not miss seeing our Representative who is calling to book Xmas orders. He is carrying samples of new lines, to be offered on specially advantageous terms, which cannot fail to interest you.



Houbigant's world-famous FACE POWDER continues to retail—as before—at 1/9 and 3/- per box.

Cheramy's FACE POWDER, retailing at 4½d. per box, leads the market in inexpensive Perfumery.

Write for Price Lists:—

PARFUMERIES de PARIS, Ltd.,
ACTON, LONDON, W.3





This appealing illustration is featured in all MAYBELLINE advertising and is the subject of a most compelling Show Card.

Those Eyes—!

AND HOW TO IMPROVE THEIR NATURAL CHARM

This is the subject of an important new
ADVERTISING CAMPAIGN
now appealing to 5,575,000 Englishwomen
every month.

Maybelline
—Eyelash Beautifier—

Famous Stage and Film Stars abroad have long relied upon MAYBELLINE for adding new depth of colour, brilliance and charm to the appearance of their eyes. In England, where "the Screen" is exercising such powerful influence to-day, millions of women will be quick to adopt this subtle aid to beauty. MAYBELLINE is the largest selling Eyelash and Eyebrow Beautifier in the world.

TRADE TERMS: Retail Prices 3/- per outfit (36/- per doz.). Less 33 $\frac{1}{3}$ % Discount. In attractive Counter Display "Outers" of $\frac{1}{2}$ Dozen Outfits.

Order now from your Wholesaler or from Sole Distributor:

THE HARRY A. PENNEY CO. LTD., 179-185 Great Portland Street, LONDON, W.1.

Telephone: WELBECK 3715.

"ODENTIC" PLATE BRUSH

Regd. No. 417637.

From all
Wholesalers.

Packed in $\frac{1}{2}$ -dozen Display Boxes.

Manufacturers:

W. R. Speer & Son (ESTD 100 YEARS)

215 DALSTON LANE - LONDON, E.8
Agent for S. Africa—C. GORDON DAVIES & CO.,
National Bank Buildings, Fritchard Street, Johannesburg.

G. B. KENT & SONS, LTD.

Are known the World over as
the Largest Manufacturers of

**BEST
BRITISH
BRUSHES**

Please write for full Particulars to—

75 FARRINGDON ROAD, E.C.1.

Telephone: Axminster 5.

ESTAB. 1847.

Telegrams: "Coate, Axminster."

COATE & CO. (Axminster) Ltd.

The London Brush Works, Axminster, Devon

Manufacturers of Super British Brushes

Our Special "PROPHYLACTIC" Tooth Brushes—

3 row Hard, Medium, Soft, Yellow Hair at	- - - -	16/- per dozen
4 " " " " " "	- - - -	18/- " "

Orders for one gross supplied in Cartons with customer's name and address free.

Every Brush Guaranteed.

British made by British Labour.

Send for our present list of prices.

Full range of samples can be seen at ROBERT W. PHILLIPS, Craven House, Kingsway, London, W.C.2

WE CREATE THE DEMAND YOUR SALES ARE QUICK AND PROFITABLE

HAMOE'S HAIR CULTURE

A sure remedy for
**GREY HAIR, BALDNESS,
SCURF, DANDRUFF,**
and all other hair troubles, non-greasy.

Hamoes Hair Culture is regularly advertised in the
National Press. It is **NOT** a new and untried prescription,
but has been on the market for ten years with excellent results.

Profits exceptionally generous.

Write for trade terms and full particulars.

GREENWOOD & REID

19/20 Holborn Viaduct, London, E.C.1

Phone: Central 4067

And at—57 ALBERT ROAD, LEVENSHULME, MANCHESTER

DON'T MISS LARGE PROFITS

CHEMISTS & DRUGGISTS

DISPLAY AND SELL

"**AMO**"
SHEFFIELD
STEEL



RAZOR BLADES

NATIONALLY ADVERTISED IN

Daily News—Daily Express—Star—John Bull—
Evening News.

RETAILING AT 1/6 FOR TWELVE

ORDER NOW 8/- Gross. Post Extra (4d. Gross)
OR WRITE FOR FREE SAMPLE AND ILLUSTRATED CATALOGUE.

To the Distributors:—L. FRANKENBERG,
125, HOUNDSDITCH, LONDON, E.C.3.

Phone—Avenue. 8846

'Grams—Uzearnos, Ald, London.

a new
Swedish blade
with a
powerful
selling
appeal



matador

gives 3 shaves more



MATADOR is a safety blade
made of Swedish tempered
ribbon steel—the finest in the
world for safety blades. It is
sharper. It lasts longer.

An extensive advertising campaign for Matador Blades has commenced. Advertisements are appearing regularly in STRAND MAGAZINE, WIDE WORLD MAGAZINE, HUMORIST, JOHN BULL, PASSING SHOW, TIT-BITS, PUNCH, etc.

A wide and steadily increasing sale is assured. Send your order now.

Each advertisement features the unique selling point—

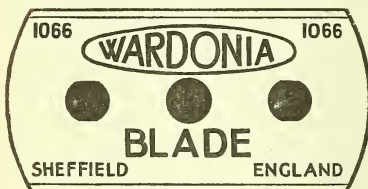
Distributors:

THOS. CHRISTY & CO.

4-12 Old Swan Lane, E.C.4.

THE GOVERNMENT SATISFIED!

**H.M. Government
Contract again for**



A contract secured some months ago and received again within the last few days is ample proof of the Government's satisfaction. The secret of the success of the Wardonia "New Edge" Blade is the mechanically-stiffened, durable edges, produced by a special process discovered after years of costly experiments. Sell the blade that brings repeats and set the cash till ringing at 50% profit (on cost) for you! Every blade guaranteed. Good show material sent free with each order.

30 Blade Card Costs	5/-	50 % PROFIT (on Cost).
60 Blade Card Costs	10/-	
120 Blade Box Costs	20/-	
Retail 4 for 1/-		

Order now through your usual Wholesaler
or direct from

WARDONIA NEW EDGE BLADES

Sole Makers:
THOMAS WARD & SONS, LTD.,

Wardonia Works, Sheffield, Eng.



Are you missing— or making—that 50% profit on Myatt Blades?

They are being asked
for more and more
every day.

Ask your wholesaler for

MYATT

PATENT DAYMARK
Blades

For Gillette Type Razors only.

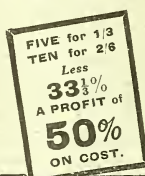
Supplied under Government Contract
to the British Army.

Sole Manufacturers:

W. J. MYATT & CO., LTD.,

Argent Works, BIRMINGHAM.

London Offices: 93-94 Hotten Garden, E.C.1



**Sheer Merit
is selling
This Blade.**

FLEET is the lowest-priced of the Quality Blades
made in Sheffield. Retail at 3 for 7½d.

FLEET offers you HANDSOME PROFIT.

FLEET keenness and long life get repeat Sales.

Liberal Bonus for Window Displays.

Terms and Sample from—

DOMINION STEEL CORPORATION, Ltd.
Fleet Works, Queen's Road, SHEFFIELD.



RODGERS have
given Britain
the lead in Razor
Blade quality as in
all other cutlery.

Write for full details
of the Blade that is
"kept best by test."

JOSEPH RODGERS & SONS, Ltd., 6 Norfolk Street, Sheffield
Cutlery to His Majesty.

NATIONAL PUBLICITY for ECLIPSE RAZOR BLADES



**The Judge
says**

To "sum up" the
merits of Eclipse
Blades in a "se-
nence" they are
best I ever "tri-

An Ideal shave is assured,
even in the case of stiff
beards and tender skins,
by using



**ECLIPSE
RAZOR BLADES**

FOR STIFF
AND TENDER

5
for
1/8

Obtainable
usual

Made by
JAMES NEILL & CO. (SHEFFIELD) LTD.,
Crucible Steel Manufacturers, SHEFFIELD.

**ECLIPSE
RAZOR
BLADES**

5
for
1/8

Obtainable from
usual suppliers

10
for
3/4

Made by
JAMES NEILL & CO. (SHEFFIELD) LTD.,
Crucible Steel Manufacturers, SHEFFIELD.

**Try this
Perfect
Blade!**

A series of attractive
advertisements is
appearing weekly
until the end of the
year in the following
important daily
newspapers, having
a combined circ-
ulation of over
5,500,000

DAILY MAIL DAILY EXPRESS
DAILY NEWS. DAILY CHRONICLE
THE TIMES MORNING POST
DUBLIN IRISH INDEPENDENT
GLASGOW DAILY RECORD
GLASGOW EVENING NEWS
BELFAST TELEGRAPH
THE SCOTSMAN
etc.

Be sure you stock
Eclipse Blades and
obtain your share
of increased sales
from this intensive
Campaign.

ONE BOX of 100 BLADES @ £1 13 4 less 33½% costs £1 2 3
5 BOXES of 100 BLADES @ £1 13 4 less 35% cost £1 1 8 each
10 BOXES of 100 BLADES @ £1 13 4 less 37½% cost £1 0 10 each

Terms of Payment:- Monthly Account less 2½% Retail prices 5 for 1/8, and 10 for 3/4.

Order from your usual Wholesaler, or direct from the Manufacturers.

JAMES NEILL & CO. (SHEFFIELD) LTD., Crucible Steel Manufacturers, SHEFFIELD.

CORKS

for Chemists.

Send us your Enquiries
and compare our prices.

Wholesale and Export.

C. OLLEY & SONS, LTD.

Established 1844.

Camperdown St. and Gt. Alie St., London, E.1

Tel. No.: Royal 2868. Tel. Ad: "Circumference, Ald, London."

METALLIC CAPSULES
FOR ALL KINDS OF BOTTLES AND JARS.

The Tonkin Metallic Capsule Co.

Proprietors: C. Olley & Sons, Ltd.

DISPENSING BOTTLES

A sound bottle is a good investment
—cheap, badly-made bottles are
dearest in the long run.

Of correct capacity, with uniform
mouths and even distribution of
metal, our bottles stand up to the
roughest handling and make all the
difference in the finished package.

They are bottles you can be proud
of, and yet our prices are keenly
competitive.

In addition they are British made.

*If you want GOOD bottles,
ask us to quote you.*

FREDERICK HAMPSON

Duncan St., Salford

Telephone 1016 Trafford Park ESTABLISHED 1851. Telegrams "Attention," Salford

GLASS BOTTLES

*We specialise
in*

**DISPENSING FLATS
COUGH MIXTURE PANELS**

*Write for Quotations
A good Bottle at a low price*

WM. HANSON & SONS, Ltd.

'Phone: 3307

Rose Grove, Burnley.

BRITISH MADE

Dry Bottle Caps

"ADAPTOCAPS"

*Superfine, Self-Sealing and Distinctive.
All Colours and Sizes.*

The completion of our New Factory and the develop-
ment of a Special Process will enable us to offer
unequalled Quality and Despatch.

The London Capsule Co.

341 Purley Way, CROYDON.

Telephone: CROYDON 1654.

GLASS BOTTLES

Large Stocks of PHIALS, PANEL FLATS, COUGH
MIXTURE PANELS, MEXICAN FLATS, CANNON
ESSENCES, &c., at low prices.

Write for Prices to—

FREDK. YOULDON (Formerly Proprietor of E. Youldon.
Established 1840.)

68 BASINGHALL STREET, LONDON, E.C.2.

'Phone: Metropolitan 4959.

Telegrams: "Youldon, Ave, London."

REGISTERED



TRADE MARK

No. 26866.

WOOD BROTHERS GLASS CO. LTD.

(ESTABLISHED 1828)

BARNSELY - - ENGLAND

Pharmaceutical Glassware of all kinds

DISPENSING BOTTLES
CHEMISTS' SHOP BOTTLES
INFANTS' FEEDING BOTTLES
SOXHLET BOTTLES. EYE-BATHS

Designers & Manufacturers of Glassware **for Perfumes, Cosmetics and Bath Salts**

SPRINKLER NECK BOTTLES
WHITE OPAL AND ROSE PINK
FROSTED GLASSWARE

Laboratory Ware in Highly Resistant

Glass

BEAKERS AND FLASKS
VOLUMETRIC APPARATUS
BOTTLES IN RESISTANT GLASS

Colours

WHITE FLINT, MEDICAL TINT, PALE GREEN,
ACTINIC GREEN, AMBER, BLUE and ART COLOURS

All our Manufacture is of the Highest Quality

THE METHYLATING Co., LTD.

for METHYLATED SPIRITS.

KINNAIRD HOUSE, Pall Mall East, LONDON, S.W.1

Telephone: Regent 5764-5.

Telegraphic Address: "Methcolim, Phone, London."



INCREASE YOUR SALES WITH Eupax Seals & Labels

The superior appearance of Eupax Seals and Labels will give that touch of quality to your toilet preparations and by stimulating interest, help to increase sales

SEND FOR A RANGE OF SPECIMENS TO-DAY

WILLIAM SESSIONS LTD.

Seal and Label Specialists

YORK

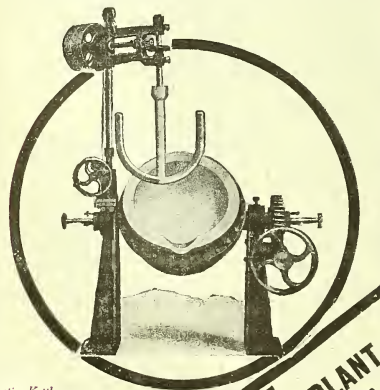
NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessities from him. Moreover, the continuous demand for it produces a quick turnover.

For Direct Terms apply to—

OSCAR SCRUTON & CO., YORK

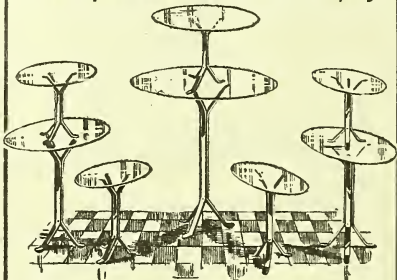


Reaction Kettles,
Distilling Apparatus,
Evaporators,
Jacketed Kettles,
Jacketed Tilting Kettles,
Enamelled Tanks,
Enamelled Containers.

**ACID PROOF
ENAMELLED CHEMICAL PLANT**
DANTO-ROGEAT & Co., LYONS, France
45 Great Marlborough
Street, London, W.1
Write for particulars to
H. SLOOG,
Telephone: Regent 2400,
Telegrams: Dantowell London.

DISPLAY!!!

A Complete Modern Window Display



J. C. KING'S "Queensbury" Display Set consists of—
5 Steel Tripods, 9" high 2 Steel Tripods, 12" high
1 Steel Tripod, 15" high

All the above Tripods—Brown Bronze finish.

4 First Quality Glass Ovals, 1" thick, 8" Bevelled Edges,
Size 12" x 9"
3 ditto ditto ditto " 14" x 10"
1 ditto ditto ditto " 18" x 12"

£2 : 10 : 0 THE SET

Send at once for full List of Up-to-date Fittings, No. 1013, post free

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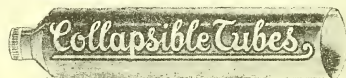
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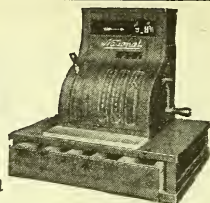
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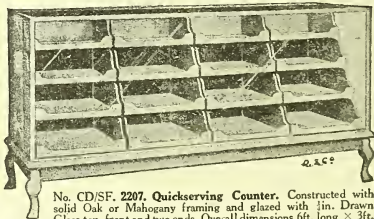
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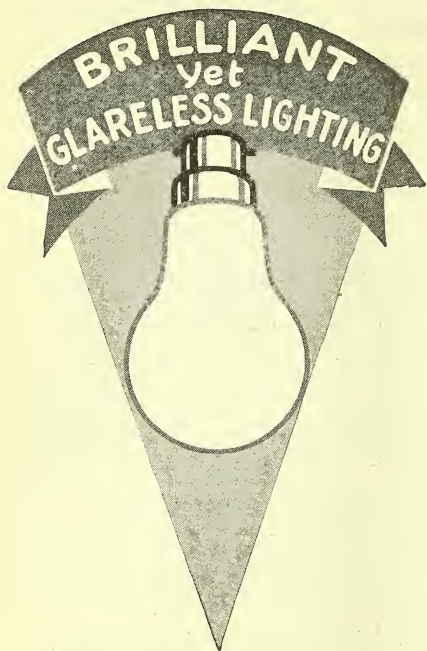
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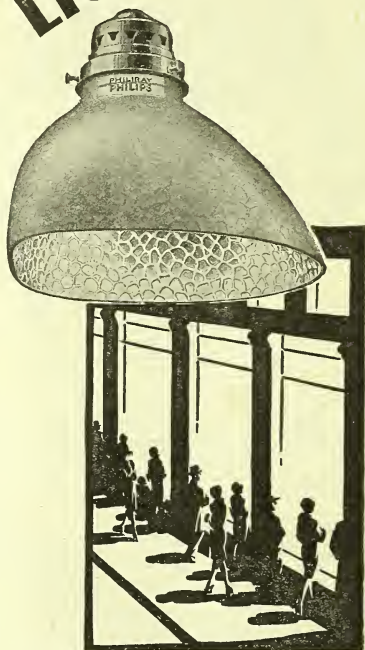
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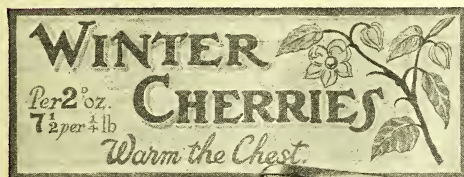
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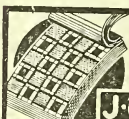
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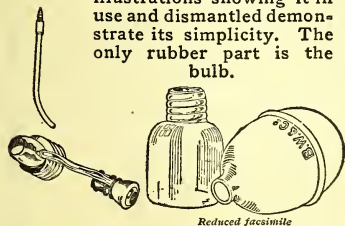


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Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Preparation of Calcium Sulphate.—Process for the production of anhydrous calcium sulphate in an extremely finely divided and apparently amorphous form, which consists in treating hydrated forms of calcium sulphate with dehydrating agents. (Peter Spence & Sons, Ltd., and William Crundall, Manchester. 319,228.)

Anhydrous Metallic Chlorides.—A process for the manufacture and production of metal chlorides which consists in acting on materials containing metal oxide with carbon monoxide and chlorine, and protecting the reacting materials against loss of heat, heat being supplied to the reacting material only for starting the reaction, by first passing the gases over a catalyst (animal charcoal), which accelerates the formation of phosgene, and utilising the resulting gas for the formation of metal chloride. (I. G. Farbenindustrie. 307,524.)

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Agricultural Produce (Grading and Marking)

The Minister of Agriculture and Fisheries has issued draft Statutory Rules and Orders dealing with, among other things, All-English (pharmaceutical) malt extract and All-English (veterinary) malt extract for the purpose of grade designations. The grade designations and definitions are given in Schedule II as follows:—

Grade Designation	Particular Characteristic	Definition of Quality		
		Protein Content	Special	General
All-English (Pharmaceutical) Malt Extract	Diastatic Activity (or Lintner Value)	The amount of soluble protein, as ascertained by multiplying the nitrogen present (other than ammoniacal or nitric nitrogen, if any) by 6.25, shall be not less than 5 per cent. of the total weight.	The Specific Gravity shall be not less than 1.4	The extract in each case shall be the entire and pure product of commercially sound, clean, malted grain, and shall otherwise comply with the requirements of the Food and Drugs (Adulteration) Act, 1928.
All-English (Veterinary) Malt Extract	Not less than 15			

The diastatic activity (or Lintner Value) is to be determined in the manner prescribed in Schedule III. Schedule IV deals with the determination of fibre content and Schedule V with the grade distinction mark. The grade distinction mark is similar to those already in use for other produce.

Inquests

At Camberwell, London, S.E., on November 4, an inquiry was held into the circumstances attending the death of Emily Crowhurst, a widow, Brixton, who died on October 28. According to the coroner, deceased had been under medical attention, and on October 23 the doctor had prescribed a sleeping draught. A second draught according to the same prescription was ordered on October 27. Mr. W. E. Mason, chemist and druggist, Brixton, S.W.2, was represented by Mr. C. H. Kirby. Evidence was given by Charles J. Graham, in the course of which he described the effect produced by the sleeping draught taken on October 27. The Coroner: When you saw the doctor at 5.30 p.m. on the day Mrs. Crowhurst died, did you say anything to him about the bottle? Mr. Graham: I showed him the bottle, and I asked him the reason why this draught should have a white sediment when the other was as clear as water. He tried to explain to me, but I did not understand the names he used. In answer to Mr. Kirby, Mr. Graham said that Mr. Mason called at his house on Tuesday. "I was out at the time, so I went to his shop in the evening," he added. Mr. Kirby: Did he ask you to let him have the contents of the bottle used on the Sunday evening for analysis?—He asked to have the contents. I could not protest; he took the bottle from me. You let him have the bottle, at any rate?—I should like to explain. Mr. Kirby: He put some water into the bottle so as to wash it out, and put the contents into another bottle?—I certainly knew that what was in the bottle originally was not in it when he came back. Mr. Graham added that he tasted liquids from two bottles at Mr. Mason's shop, but neither tasted like the sleeping draught. Mr. Mason poured something into a tumbler, and he (Graham) tasted it, but it was not the same that his mother-in-law had. Hers was more bitter. Mrs. Dorothy Graham, deceased's daughter, then gave evidence, and in answer to Mr. Kirby, said it

was not Mr. Mason who handed her the sleeping draught, but an assistant. Henry Milson, brother-in-law of Mrs. Crowhurst, said that he visited her the day she died. Mr. Graham handed him a bottle, the cork of which was coated with a greenish-white moist powder. The inside of the bottle was thickly coated with a greenish-white sediment, and the contents were so thick that he could not see through the bottle, which was of white glass. In adjourning the inquiry until November 19, the coroner said a *post-mortem* showed no evidence of corrosive poisoning, but he had sent certain organs to the Home Office analysts for further investigation.

Visits to Works

A party of sixty members and friends of the Ealing and District Pharmacists' Association visited the Gramophone Co.'s factories at Hayes, Middlesex, on October 30. The party was split up into groups, each in charge of a guide, who explained the various processes in the manufacture of gramophones and records. At the end of the tour the visitors were entertained to tea. Mr. Frank Browne (president of the Ealing Association) proposed a vote of thanks to their hosts and their guides, which was seconded by Mr. R. F. Edkins, and carried with applause. Mr. Mattison, on behalf of the Gramophone Co., responded.

Members of the junior section of the N.E. Lancashire Branch of the Pharmaceutical Society paid a visit to the works of Evans Sons Lescher & Webb, Ltd., Liverpool, on October 31. Leaving Blackburn by motor coach at 9 a.m., on arrival at Liverpool they proceeded to the Gladstone Dock to inspect the White Star liner "Baltic," afterwards visiting the Royal Liver Building. On reaching Messrs. Evans's works, they were heartily welcomed and shown over the laboratories by Messrs. Sendall and Turner. The party were afterwards entertained to high tea, at which Mr. W. Brinson presided. Mr. Bracewell (president) proposed and Mr. Berry (secretary) seconded, a hearty vote of thanks to the company for their kindness. Messrs. Brinson and Sendall responded, and expressed on behalf of their fellow-directors the pleasure it gave them to be of service.

Birmingham

The pharmacy students had an interesting car at the recent carnival.

The winter programme of the Midland Scientific Society is attractive.

"Should Doctors Dispense?" was the title of an article which appeared in the "Birmingham Daily Mail," on November 5.

Mr. C. J. House, B.Sc., who has completed three years in Bangkok, Siam, is contemplating a holiday, and hopes to visit Birmingham.

Haseley Hall, once the residence of a well-known Birmingham physician, Sir James Sawyer, and until recently the country house of the employees of W. & T. Avery, Ltd., has been acquired by the Warwick Corporation.

Mr. F. H. Alcock, Ph.C., occupied the chair at the recent May Lane Allotments Association's prize distribution and concert. Mr. Arthur Lerrigo, who holds the position of chief assistant in the city analyst's laboratory, presided at the piano.

Liverpool

A branch of the Photographic Dealers' Association is to be formed locally.

There are continued and general complaints as to the poor state of trade. Most chemists are trying to stimulate matters by special displays of soaps, shaving sticks, and such-like.

Mr. T. Marns, a member of the Council of the Pharmaceutical Society, called upon several of his Liverpool chemist friends when passing through on his way home after a three weeks' stay in Ireland.

A well varied programme of social events is being arranged by the committee of the Liverpool Pharmacy Club. There is to be a social evening and dance at the Colquitt Street Hall on November 13, followed by a theatre party to the Playhouse on November 20, and a

whist drive on December 11. On the intervening Wednesday, November 27, the annual dance of the Liverpool Chemists' Association is to be held at the Midland Adelphi Hotel.

The Wallasey Pharmacists' Association have arranged to inaugurate the winter session with a smoking concert at the Royal Ferry Hotel, New Brighton, on November 20. A feature will be a "best-funny-story" competition.

The Liverpool Insurance Committee and the South-West Lancashire and Cheshire Joint (Prescription) Com-



THE PRIZE WINDOW OF MR. GEORGE NELMES, 39 FOX STREET, IN GILLETTE RAZOR COMPETITION

mittee are now housed under one roof at 36 Princes Road, Liverpool. The new premises cost £1,750, and a further £3,500 was required for alterations.

Sheffield

Sheffield Pharmacies, Ltd., have acquired the business of Mr. R. Dawson, chemist and druggist, Pilsley, Chesterfield, and also the business of Mr. H. T. Charnock, chemist and druggist, Brightside.

Mr. C. H. Hewitt has been one of the victims at his residence of a remarkable series of local thefts by three children, aged thirteen, twelve and eleven respectively. They were eventually placed on probation, but the mother of one of the children was sentenced to six months' imprisonment for receiving.

Miscellaneous

FIRE.—An outbreak of fire occurred on October 23 at the premises of Mr. Gwyn M. Jones, chemist and druggist, Penycraig. Considerable damage was done to the dispensary.

ALIENS RESTRICTION (AMENDMENT) ACT.—Permission has been granted to Julius von Tyszka, dealer in chemical and toilet cabinets, 17 Belvedere Road, Taunton, to use the title Hewitt & Son.

WINDOW-DRESSING AWARD.—At a shopping week window dressing competition, held at Lye, Stourbridge, recently, the second prize in the class for "Things to Use" was awarded to George Greenwood & Son, chemists, High Street.

CHRISTMAS SHOPPING HOURS.—The Home Secretary has made an Order under Section 7 (1) of the Shops (Hours of Closing) Act, 1928, suspending the operation throughout England and Wales of the provisions of that Act relating to general closing hours from Wednesday, December 18, to Tuesday, December 24, 1929, both days inclusive. This Order has also the effect of suspending the operation during the period in question of Closing Orders made under the Shops Act, 1912, but does not relieve occupiers and others from compliance with the weekly half-holiday and other provisions of the Acts of 1912 and 1913.

Irish News

Dangerous Drugs Act, 1920

The "Belfast Gazette" of November 1 gives notice that on October 23, 1929, an Order in Council was made under Section 8 (2) of the Dangerous Drugs Act, 1920, applying the provisions of Part III of the Act to esters of morphine and their respective salts; and to any preparation, admixture and extract containing esters of morphine.

Brevities

Mr. Horatio Todd, J.P., Ph.C., ex-president of the Pharmaceutical Council of Northern Ireland, has been elected a vice-president of the Belfast and District Chamber of Trade.

At Limavady, recently, W. Logan, labourer, was charged with attempting to commit suicide by taking strychnine. His explanation was that he had carried the powder in his pocket for six years and believed it to be Epsom salts. He was remanded in custody.

At Dublin, on November 4, the City coroner held an inquest on the body of Joseph Corcoran, who died from the effect of drinking glacial acetic acid purchased from Mr. T. H. Walsh, Ph.C., Howth, for removing warts. A verdict of "Death from shock as the result of swallowing glacial acetic acid self-administered" was returned.

The Kerry Board of Health has received a letter from the Local Government Department regarding the failure of the medical officers of the Ardirt, Kenmare and Ballyheigue dispensaries to send in the customary reports on analyses of drugs. The secretary said the failure to report caused a considerable delay in correspondence, and in future the names of all medical officers failing to do this work would be reported to the Board.

Belfast

The Belfast Hospitals' Pharmacopœia came into operation on November 4.

Commercial travellers complain that they are unduly harassed owing to the too rigid enforcement of the traffic control regulations in Belfast. Recently, a traveller on going into details ascertained that the correct procedure would be to drive to the business and deliver his samples, then drive to the parking place with his car and return to the premises on foot, and when his business was completed to reverse the process.

In the King's Bench Division of the Ulster High Court, Belfast, on October 31, a settlement was announced in an action in which John B. McCune, described as a pharmaceutical apprentice, was plaintiff and David Goldring was the defendant. The plaintiff claimed damages for personal injuries, loss and damage sustained by reason, as alleged, of the negligence of the defendant, his servants or agent, in the driving, management and control of a motor-car. Mr. E. S. Murphy, K.C., for the plaintiff, announced that the defendant had agreed that judgment be given for £300 with costs.

Scottish News

Brevities

At a meeting of the Royal Society of Edinburgh on November 4, Mr. A. W. Greenwood, Ph.D., gave a paper on the thymus gland and its association with growth.

A new drug department is being opened by the Bonnybridge Co-operative Society, Ltd., in their property at the local Post Office Buildings.

There is a decided body of opinion growing in Scotland against the excessive use of artificial manures in the cultivation of potatoes. The absence of potatoes of good quality is likely to lead to a decrease in their use.

Mr. Andrew James Thorburn has been appointed head of the Pharmacy Department of Swansea Technical College. Mr. Thorburn was educated at Ayr Academy, and afterwards studied at the Royal Technical College, Glasgow, taking the degree of B.Sc. (Pharm.).

The usual winter remedies are now on view in chemists' windows and there is evidence that "stunts" are having a wide berth.

Among those who have obtained the diplomas of L.R.C.P.E., L.R.C.S.E. and L.R.F.P. and S.G. recently, is Mr. Donald Forbes Johnstone, son of Mr. D. F. Johnstone, chemist and druggist, High Street, Melrose.

Mary Bentley Chrystal, living at South View, Annan Road, Dumfries, appeared before Sheriff Brand in Dumfries Sheriff Court on October 30, charged with eight offences under the Dangerous Drugs Regulations, in that, on eight days in September, in chemists' shops in the town, she procured one ounce of tincture of opium without being authorised to do so. The Sheriff put the accused on probation for two months.

The death has taken place recently of Dr. George A. Pirie, Dundee, a pioneer in radiology. Dr. Pirie was a native of Dundee and was educated at St. Andrews and Edinburgh University. He was engaged in x-ray work at Dundee Royal Infirmary from 1896 to 1925. In 1926 the Carnegie Hero Fund Trustees awarded him a bronze medalion, and in the same year Dundee citizens presented him with a cheque for £1,120 and other gifts in recognition of his self-sacrifice.

Glasgow

Milk and spirit of wine "partes iguales" was the formula given recently in a Glasgow newspaper as being the "coolest lotion you can have," and a substitute for ice in the sick-room. The cost of the substitute was not stated.

The Council meeting of the Glasgow and the West of Scotland Branch of the Photographic Dealers' Association which was held on October 23 was attended by, among others, the president, Mr. A. Oglesby, and the general secretary, Mr. E. J. Andrews. A number of matters were discussed, and it was agreed: (1) To recommend the National Council to adopt the Glasgow Branch scale of D. and P. Prices for 1930; (2) to recommend a date limit for new photographic accounts, say, in March or April of each year; (3) to request the National Council to endorse the scale of prices for enlargements adopted by the Photo Finishers' section; (4) to give further consideration to a scheme of insurance for sale by instalment of cameras costing less than £2 10s. The meeting closed with hearty votes of thanks.

October Drug Tariff

The following are the chief alterations for October in the Insurance Drug Tariff for England and Wales:—

Lower.—Acid, citric, pulv., 3s. 4d. lb.; arg. nit., 2s. 10d. oz.; cret. præp., 6½d. lb.; dec. senegæ conc., 6s. lb.; dec. senegæ ex conc., 8d. lb.; emuls. ol. morrh. c. hypoph., 2s. 4d. lb.; ext. malti, 9d. lb.; ext. malt. c. ol. morrh., 9½d. lb.; inf. rhei conc., 3s. 8d. lb.; inf. senegæ conc., 5s. lb.; lin. camph., 2s. lb.; lin. pot. iod. c. sap., 4s. 6d. lb.; ol. amygdalæ, 5s. lb.; ol. caryoph., 14s. lb.; ol. limonis, 22s. lb.; ol. olive, 15s. 6d. gal.; saccharum purif. pulv., 6½d. lb.; salicin, 2s. 9d. oz.; senne folia Tinnev., 1s. 6d. lb.; tr. belladon., 5s. 4d. lb.; tr. bryoniæ, 6s. lb.; tr. senegæ, 6s. 6d. lb.; tr. valerian., 5s. 3d. lb. *Higher.*—Acceie gum, pulv., 3s. 10d. lb.; aloinum, 1s. 6d. oz.; barbitonum, 1s. 2d. oz.; borax pur. pulv., 39s. cwt.; calc. carb. præcip., 44s. cwt.; ext. ipecac. liq., 2s. 8d. oz.; ext. opii sic., 8s. 6d. cwt.; lini sem. contus., 47s. cwt.; lin. opii meth., 5s. 6d. lb.; liq. opii sed., 9s. 3d. lb.; mag. sulph., 25s. 6d. cwt.; ol. anisi, 9d. oz.; ol. croton, 1s. 3d. oz.; ol. lini, 6s. 3d. gal.; ol. menth. pip., 23s. lb.; ol. morrhue, 9s. gal.; pulv. ipecac. co., 10s. 6d. lb.; sodii bicarb., 37s. cwt.; syr. codeine phosph., 3s. 2d. lb.; tr. chlorof. et morph. co., 11s. lb.; tr. opii, 8s. 3d. lb.; ung. capsici, 2s. 6d. lb.; vinum ipecac., 4s. 1d. lb.

MEDICAL DEFENCE UNION.—It was stated at the recent annual meeting of the Medical Defence Union that the membership is 15,794, and that the invested funds have increased since 1925 from £18,000 to over £40,000.

Salford Analyst's Report

The latest annual report of the analyst for the City of Salford (Mr. H. H. Bagnall, B.Sc., F.I.C.), covering the year 1928, gives particulars of the results of taking 1,484 samples for analysis, 4.72 per cent. of which were found to be adulterated. This percentage is virtually identical with that of the two preceding years. Before discussing specific articles, Mr. Bagnall criticises

THE FOOD AND DRUGS (ADULTERATION) ACT, 1928,

which, as pointed out in the *C. & D.*, November 2, p. 543, is a consolidating Act. The Salford analyst writes:—

"The opportunities for profitable adulteration and misdescription are nowadays largely in the hands of wholesale manufacturers, and not to anything like the same extent in those of the small private trader. The original Acts were intended to deal with the latter class, and there is scarcely any provision made for dealing with the big manufacturing firms, who are generally the cause of any trouble which may occur. The 1928 Act simply re-enacts, without any material change, the features of the older Acts, and no attempt has been made to introduce fresh matter to make it more possible to get at the actual offenders. In most cases the makers of an adulterated article which has been bought at a retail shop in a local authority's district have no premises in that district, and a sample cannot be bought directly from them. The only procedure in this case is to take a sample of the article on delivery at the retail shop, either at the request of or with the consent of the retailer. There are obvious difficulties which may be encountered here. It may be necessary to wait a considerable time before the retailer wishes to order another consignment, and meanwhile the makers may get wind of the trouble.

"By a curious oversight, the word 'drug' has been omitted in the Section dealing with the taking of samples on delivery both in the original Act and in the new Act, and this means, of course, that if a retailer sells an adulterated drug, for which he has no warranty from the wholesaler, there is no means whatever of getting at the latter. The retailer may be perfectly innocent in the matter and may have bought the article in all good faith and sold it in the belief that it was perfectly genuine, yet, under the Act, he is the only person who can be proceeded against. The insertion of the word 'drug' in the Section would have made it possible, even if perhaps very difficult, to fix the responsibility on the makers. There are a number of these oversights perpetuated in the new Act which, if corrected, would have materially increased its value. For example, the definition of butter in Section 54 reads: 'The expression butter means the substance usually known as butter, made exclusively from milk or cream, or both, with or without salt or other preservative.' This is in direct contradiction to the Preservative Regulations, which forbid the addition of preservative of any kind to butter, and may raise an awkward legal discussion. By this Section also, salt is included as a preservative, but according to the Preservative Regulations it is not to be regarded as a preservative. . . . The public analyst is very often put in a very anomalous position, when he cannot recommend prosecutions in cases where it is well deserved, simply because he knows that from the legal point of view there is no case to go on. His aim is to ensure that both the consumer and the honest manufacturer have a square deal, and under the present Food and Drugs Acts this is often literally impossible."

COD-LIVER OIL TABLETS

After a discussion of the law case (reported in the *C. & D.* at the time) in which a batch of cod-liver oil tablets was tested in the Pharmacological Laboratories of the Pharmaceutical Society, Mr. Bagnall continues:—

"Sample No. 9520 consisted of another brand of tablets which were advertised as containing the 'active principle of the liver in a palatable form.' It was also stated that each tablet was equivalent to a tablespoonful of cod-liver oil. On examining them by the usual colour test, five tablets were found to contain less vitamin A than one drop of ordinary commercial cod-liver oil. . . .

Sample No. 9534 was another brand of tablets which, although containing the necessary vitamins in a good proportion, so far as could be judged, had on the label the statement 'Each tablet is equal to a spoonful of the finest cod-liver oil.' In the writer's opinion this cannot be upheld, as the vitamins of the oil only constitute a part of the valuable element contained in it. For all that is yet known to the contrary, there may be any number of constituents of the oil, apart from vitamins A and D, which may have beneficial effects as great as these, and to state that a tablet which contains merely a concentration of the vitamin containing portion of the oil is equal in value to the oil itself is obviously untrue. . . . Sample No. 9539 was advertised as containing 'The essential medicinal properties of cod-liver oil.' Other advertising matter made the surprising statement that they actually were more effective than the oil itself! Another interesting paragraph gave the information that 'The form in which cod-liver oil is present is 250 times as rich in vitamins as the best butter.' Again, vitamin A was shown to be practically absent, five tablets containing less of this constituent than one drop of cod-liver oil. The firm concerned was asked for an explanation, and in an interview with their representative a promise was given that the article would be no longer manufactured."

PROPRIETARY MEDICINES DISCUSSED

"A few remarks may be made here with regard to the general question of the manufacture and sale of proprietary medicines. It may not be generally known that in this country there is practically no check at all on the sale of such articles. It is open to anyone with enough capital to make up a mixture of drugs (except scheduled poisons) and advertise it as 'A's Powders,' or 'B's Pills,' and so on, with accompanying statements to the effect that it will cure or relieve certain diseases, whether the drugs employed are actually useful for the purpose or not. If the name of an ailment is mentioned with the medicine, Government stamp duty has to be paid. . . . Subject to this one restriction, proprietary medicines of any description, whether harmful or harmless, whether suitable or not suitable for the diseases they are advertised as being able to cure, may be made and sold with impunity. Nitric acid and water may be sold and has been sold as a cure for constipation, starch as a remedy for dropsy, insanity, smallpox, etc., alcohol for easy confinement, and sugar as a cure for drunkenness. A remedy may be recommended by bogus testimonials and by the invented opinions and facsimile signatures of fictitious medical men. It can be sold under any name the 'inventor' may choose, and at any price the public can be persuaded to buy. The credulity of the latter seems to be boundless. Any advertisement of a new patent medicine, however absurd its claims, seems to be accepted as truth by large numbers of people.

"Proprietary medicines, for practical purposes, may be divided into four classes, always excluding a certain number, such as aspirin, acetanilide, which are genuine drugs synthetically produced and sold (under many names) by pharmacological laboratories. (1) This group consists of a number of household remedies, often originally manufactured from a family doctor's prescription, and often beneficial for simple ailments. The retail price is generally out of all proportion to their cost, and large fortunes have often been made by the proprietors. (2) Dangerous remedies and drugs for improper purposes, which should not be sold at all except under a doctor's prescription. (3) Fraudulent remedies—a large class with an extensive sale, often at exorbitant prices, consisting of alleged cures for diseases, such as cancer, consumption, diabetes, epilepsy, etc. These are sheer and cruel frauds, and their makers deserve the severest penalties. (4) Remedies making grossly exaggerated claims upon which they depend for their sale. Huge profits are made by the makers of the articles in this class. It will be seen that very little good can be said for the articles in any of these classes, and the suppression of the whole would probably immensely benefit the health of the community."

"This country is practically the only civilised country in the world which has no means of controlling these articles, and in view of the immense amount of harm that may be caused by them, this lack of control is a

national disgrace. . . . What is wanted is entirely fresh legislation to deal with the matter. The Ministry of Health should exercise control over the advertisement and sale of all proprietary and patent medicines. The exact formula of them should be furnished to the Ministry, together with a full statement of the claims made, and these should be examined by a competent body of assessors, with power to prohibit or permit in the public interest the sale and advertisement of any proprietary and patent medicines. The whole of the facts relating to these articles were gone into by the Select Committee on Patent Medicines in 1912, and a report was adopted which condemned utterly the present lack of supervision, and suggested stringent alterations in the existing law and new legislation of a thoroughgoing kind. Unfortunately, these recommendations have never been carried into effect, but the report is still available and a public service will be done by the first Government acting on its findings."

Other articles dealt with in the report are "extra strong seidlitz powders," tonic wine (one sample contained 0.03 per cent. of hypophosphite calculated as calcium and 0.27 per cent. of total ash), cheese, jam and lard.

Brewers' Exhibition

THE forty-sixth Exhibition and Market devoted to the interests of the brewing, mineral water and allied trades, opened on November 2, and continues until November 8. The exhibition contains much of interest to the manufacturer on account of the large and varied display of up-to-date machinery, a good proportion of which is suitable for use by the drug trade. Among the exhibits the following are of interest.

THE GRAESSER-MONSANTO CHEMICAL WORKS, LTD., have a good display of saccharin. BOOTS PURE DRUG CO., LTD., also show saccharin in liquid, powder and tablets, together with an interesting diagram explaining how saccharin is obtained from coal tar. A number of specialties occupy the stand of A. BOAKE, ROBERTS & CO., LTD., including caramel for tinting and flavouring. THE BRITISH ESSENCE CO., LTD., and the LONDON ESSENCE CO., LTD., show a fine range of flavouring essences and colours for the mineral water trade. PAINE & CO., LTD., make a feature of their "John Bull" malt extract. EDWARD SUTCLIFFE, LTD., also display malt.

JAMES BURROUGH, LTD., rectifiers and distillers, show a large range of specialties, many of which are interesting to chemists in possession of a wine-licence. THE ORANGE-CRUSH CO. (LONDON), LTD., have a range of orange crush, lemon crush, lime crush and several new favours.

Cash registers are displayed by the NATIONAL CASH REGISTER CO., LTD. New models are in evidence and demonstrations are being given to those interested. In another part of the gallery is the stand of the REMINGTON CASH REGISTER CO., LTD., who display registers specially suited to various needs. Personal weighing machines are exhibited by the AUTOWAY CO. and the RELIANCE AUTO-SCALE CO., LTD.

Among those displaying corks are the DEFIANT CORK CO., LTD., ARMSTRONG CORK CO., LTD., and the WALLIS BROWN CORK CO., LTD. JEAN O. SAUVEN shows the latest improved perforating machines in 150 different models. Among other exhibits noted were:—SCHWEPES, LTD. (table waters and cordials); JOHNSON & JORGENSEN, LTD. (glassware); A. F. CORRETT & CO. (shop fittings and cases); OXO, LTD. (oxo, lemon and hospital oxo); EDME, LTD. (diastatic malt syrup); MILTON PROPRIETARY, LTD. (non-poisonous antiseptic); W. A. WATLAND & CO., LTD. (malt extract, caramel, spirit colourings, and a special yeast food); THE CARBON DIOXIDE CO., LTD. (dry ice for use as a refrigerant); DISTILLERS' CO., LTD. (malt extract); GONVILLE, JARVIS & CO., LTD. (Hi-o-Tint, a caramel of quality); BRITISH SYPHON CO., LTD. (siphons of British make); UNITED GLASS BOTTLE MANUFACTURERS, LTD. (bottles and delivery cases); JOSEPH LONG (scientific instruments); CANNING TOWN GLASS WORKS, LTD. (containers for all trades). A series of horticultural and agricultural specialties is displayed by ABOL, LTD. VISCOSÉ DEVELOPMENT CO., LTD., show a range of self-fixing air-tight bottle capsules.

Perfumery Manufacturers' Luncheon

REFERENCE to the great opportunities which are before the British perfumery industry and to the value of organisation in this and in other trades was made by Mr. Percy Ashley, C.B., Principal Assistant Secretary, Department of Industries and Manufactures, Board of Trade, at the fourth annual luncheon of the Perfumery Manufacturers' Section of the London Chamber of Commerce, which took place at the Holborn Restaurant, London, on November 6. Mr. C. Emerson Huston (Zenobia, Ltd.) presiding. Mr. Ashley, in proposing the toast of "The British Perfumery Industry," said he was not sure whether the members of such trade organisations as the Perfumery Manufacturers' Section realised their value both to their particular trade and also to the Government. It was very important that the Government Departments concerned with industry and commerce should know where they could obtain authoritative and representative expositions of the ideas and aspirations of a particular trade, and it was also of great value that traders themselves should be able to speak with a single and united voice to the Department. It had been claimed that the consumption of perfumes was an index both of the real level of civilisation and the standard of refinement and general economic well-being. If that were true, then there was a great opportunity before the perfumery industry at the present time, for the general level and economic well-being of the people was unquestionably higher to-day than at any other time in our national history. If the assumption he had mentioned was correct and the opportunities before the industry became increasingly larger, it would cease to be what many people regarded it as to-day, a luxury industry, and would become an industry essential to civilisation. The perfumery industry also had great difficulties, perhaps not the least of which was the superior reputation—deserved perhaps in the past, but less deserved to-day—of some foreign producers. The industry had not merely to maintain and heighten the standard of its products, but it had to bring home to the mass of the consumers the fact that British perfumery products were at least as good as those produced by the perfumery industry in other countries, and he ventured to suggest that collective propaganda with this object in view was a subject worthy of the Secretary's consideration. (Applause.) In reply the chairman mentioned that although, as compared with the great basic industries of this country, the perfumery industry appeared small, it must be realised that with its allies, such as the toilet soap and chemical trades and its bottle-making and box-making ramifications, to say nothing of the work it brought to high-class printing establishments, it did play an important part in the employment of labour. Reviewing matters which had occupied the attention of the Section, Mr. Huston mentioned that certain problems connected with the trade overseas had proved of so far reaching a character that the Section had under consideration a proposal to constitute a Joint Committee representative of both British manufacturers of perfumery and foreign sellers of perfumery in this country, with the object of conferring upon questions in which their interests were identical. He also mentioned that the perfumery trade was to-day so much involved with the toilet trade and its various branches that in order to lend more weight to its decisions and work the possibility might be considered of forming a subsection of the manufacturers of toilet requisites who were not actually manufacturers of perfumery. Mr. Huston also expressed the hope that in the future there might be an amalgamation of all the British perfumery houses so that the trade might more successfully combat the inroads made by our foreign competitors. (Applause.)

AN AUTUMNAL APPEARANCE.—At Southend County Police Court recently a witness said that both parties were shaking like "aspirin leaves."

BUENOS AIRES EXHIBITION.—Official notice has been given to the management of the British Empire Trade Exhibition, to be held in Buenos Aires in 1931, that His Majesty's Government have decided to participate.

Legal Reports

Apprenticeship Dispute.—In Bideford County Court, on October 24, Yolande Joyce Bishop (through her father, Mr. Edward Bishop, grocer, Northam), claimed the sum of £20 damages for wrongful dismissal and breach of agreement from Mr. Henry Walter Greenwood, chemist and druggist, Cross Street, Northam. Mr. T. Oerton, jun., stated that Miss Bishop was employed by the defendant at his Bideford shop, being indentured for three years, from April 1928 to learn the business of a dispensing chemist. There had not been any trouble until she asked to be allowed leave of absence to attend a wedding at Northam on June 29. Mr. Greenwood permitted her to have three hours off duty for the purpose, but on the morning of the wedding day the ceremony was postponed. Miss Bishop, however, was deputed to stop the guests going into the church, and also took part in the reception at a hotel. While at the reception she was informed by her mother that a message had been received asking her to return to work at Bideford. She returned at 10.50 a.m., and found Mr. Greenwood angry that she had not come back before. When Miss Bishop presented herself for work on the following Monday morning she was told to go home and given a letter to take to her father. Three days later Mr. Greenwood wrote to Mr. Bishop and offered to reinstate his daughter on the same understanding as before, but the offer was not accepted. Evidence bearing out this opening statement was given by the plaintiff and her mother and father, the parents mentioning the steps which had been taken since to try to find the girl employment. Mr. R. Meikle, for the defendant, stated that the plaintiff had told her employer she had no intention of going in for her examination, and he contended that damages must in any event be small. Mr. Greenwood told the judge that it was very awkward for an apprentice to go off duty at that particular time of the year, especially on a Saturday. He did not engage another apprentice for at least three months. Evidence having been given by Mrs. Greenwood and Miss McGregor, Judge Lindley said he did not consider that Mr. Greenwood was justified in terminating the apprenticeship, but the girl in her own interest should have returned to him. He found for the plaintiff for £2, but as £5 had been paid into court it would be a verdict for the defendant, with costs from the time of the payment into court, plaintiff to have costs up to that time.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

METROPOLITAN DRUG STORES, LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists, chemical manufacturers, druggists, etc. The subscribers are: D'Arcy F. Cubitt and A. J. Wheatland.

SYL-FIZ, LTD. (P.C.).—Capital £500. Objects: To carry on the business of manufacturing and pharmaceutical chemists, etc. The directors are: Margaret Watkinson and Phyllis Hodges. R.O.: 21 Henry Street, Keighley.

J. A. SULLIVAN, LTD. (P.C.).—Capital £100. Objects: To carry on the business of pharmaceutical and dispensing chemists, etc. The subscribers are: J. A. Sullivan and Dorothy Lambert. R.O.: 397 Thornton Road, Four Lane Ends, Bradford.

CLIVES CHEMISTS, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists, druggists, pharmacists, opticians and photographers, etc. The directors are: Mrs. M. Humphreys, B.A., and T. H. Humphreys. R.O.: 5 Great Winchester Street, London Wall, E.C.

MAYOVS, LTD. (P.C.).—Capital £500. Objects: To acquire the business of a chemist and druggist carried on by Annie L. Lubenstein at New Park Street, Leicester, as "Mayovs Drug Stores." The directors are: P. Stone, M.P.S., and K. E. Bowman. R.O.: New Park Street, Leicester.

ALEXANDER'S PHARMACY, LTD. (P.C.).—Capital £100. Objects: To acquire Alexander's Drug Stores at 89 Lever Street, E.C.1, and to carry on the business of chemists, druggists, etc. The directors are: S. Alexander and Mrs. E. Alexander. R.O.: 89 Lever Street, E.C.1.

J. MORRIS, LTD. (P.C.).—Capital £500. Objects: To carry on the business of wholesale and retail pharmaceutical and analytical chemists and druggists, etc. The directors are: J. W. J. Morris and Doris G. Coffin. R.O.: 184 Soho Road, Handsworth, Birmingham.

C. M. HOLMES, LTD. (P.C.).—Capital £4,000. Objects: To acquire the business of a chemist, druggist and pharmacist carried on by C. M. Holmes at 97 Upper Clapton Road, London. The directors are: H. J. Whitehead and Mrs. F. D. Whitehead. R.O.: 36a Waterloo Street, Birmingham.

TEMPLE PHARMACY, LTD. (P.C.).—Capital £100. Objects: To carry on the business of wholesale and retail chemists and druggists, etc. The directors are: S. J. Powell, 142 Camberwell New Road, S.E.5, chemist and druggist, and S. Waters. R.O.: 22 Devereux Court, Temple, E.C.2.

PALESTINE POTASH, LTD. (a "public" company). Nominal capital £400,000. Objects: To acquire a concession or concessions from the Government of Palestine and the Government of Trans-Jordan, pursuant to an agreement dated May 22, 1929, between the Crown agents for the Colonies (acting on behalf of the said Governments) of the one part, and Moise Novomeysky and Major Thomas G. Tulloch of the other part, to prospect, examine, explore and develop the natural mineral resources of the Dead Sea and the surrounding area, to win, refine, prepare for market and deal in mineral salts of all kinds, including potash and common and other salts, etc. The first directors are:—The Earl of Lytton, Isaac B. Brodie, B. Flexner, E. Friedman, E. W. D. Tennant, F. M. Warburg, T. G. Tulloch, Moise Novomeysky and David Lyell. A majority of the directors must consist of persons who are British subjects, or British and Palestinian subjects together. Solicitors: Herbert Oppenheimer & Co., 1 Finsbury Square, E.C.2.

Bankruptcy Reports

Re Frederick James Sansom, residing and carrying on business at 75 Duke Street, Barrow, chemist and druggist. This failure was investigated before Mr. Registrar J. F. Hodgson at Barrow Bankruptcy Court, on October 25. The debtor attributed his insolvency to want of capital and the business having gradually dwindled. His statement of affairs showed gross liabilities of £2,278 14s. 11d., expected to rank, £371 3s. 2d. His assets were estimated to produce £46 18s. 9d., leaving a deficiency of £334 4s. 5d. Debtor, in answer to the Official Receiver, said he had been in business all his life at the same address. In 1920 he was in partnership with his brother, and the business was then paying well. His brother died in 1921, and his half-share was assessed at about £1,000. Debtor then took the whole of the business over. Subsequently there was a tremendous slump in trade. His brother's widow was getting approximately his drawings from the business and debtor had not his assistance. In 1925 he made a deed of arrangement. His unsecured liabilities were then £2,807, and his assets £787. The business had diminished considerably and he had been carrying on from hand to mouth. He had lately been pressed by creditors. The examination was closed.

Private Arrangements

Louis Marks, also trading as the Marlo Toilet Products, 33 St. Mary's Road, Manningham, Bradford, chemist and druggist. The creditors interested herein were called together on October 25, at Bradford, when Mr. J. Thoseby, I.A., of District Bank Chambers, Bradford, submitted a statement of affairs which showed liabilities of £1,286 19s. 2d. The claims of the trade were £647 14s. 4d., and there were private creditors for

£39 11s. 1d., and cash claims totalling £165. The bank were scheduled as partly secured creditors for £460 13s. 9d., and they held life policies of the surrender value of £26, leaving them unsecured for £434 13s. 9d. The assets comprised book debts valued at £45; stock £770; and fixtures and fittings £235, making a total of £1,100. After allowing £139 10s. 2d. for preferential claims, the net assets were £960 9s. 10d. or a deficiency of £326 9s. 4d. It was stated that there were no fewer than 117 trade creditors. The cash creditors were relatives of the debtor, and the bank also held collateral security. It was reported that the debtor commenced business at his present address in October 1925. He then took over an old-established business. During the year to September 1926 the sales were £1,580, but in the two following years they increased approximately to £1,790 per annum. During the twelve months to September 30 last, however, the turnover fell to £1,517. The drawings had been at the rate of £4 a week. The book debts were principally in respect of an easy shaving preparation which the debtor had sold to hairdressers, and he was of opinion that if it was properly advertised it would prove a valuable selling item. Several creditors had recently commenced proceedings, but no voluntary arrangement in favour of the debtor being dealt with under a deed of assignment, with Mr. Thoseby and Mr. Parkin S. Booth as joint trustees. The following are creditors—Evans Sons Lescher & Webb, Ltd., £31; Burgoyne, Burbridges & Co., Ltd., £17; The British Drug Houses, Ltd., £15; Colgate-Palmolive-Peet, Ltd., £16; Dalmas, A. de St., & Co., Ltd., £21; Illingworth, Thomas, & Co., Ltd., £16; Raimes & Co., £19; Stephenson Bros., Ltd., £20; Tor Perfumery Co., £21; United Chemists' Association, Ltd., £14; Guest, T., & Co., Ltd., £16.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Tuesday, November 12

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C.1. First evening meeting of the present session in lecture theatre at 8.30 p.m. Lecture on "Modern Views of Matter," by Professor E. N. da Costa Andrade, D.Sc., Ph.D.

Wednesday, November 13

Anglesey, North Carnarvonshire and Colwyn Bay Branch of the Pharmaceutical Society. Meeting at British Hotel, Bangor, at 2.45 p.m. Address by Mr. Antcliffe on "Present and Future Pharmacy."

Birmingham Pharmaceutical Association. Annual dinner, followed by musical entertainment, Grand Hotel, Colmore Row, 6.45 for 7 p.m. Tickets, single 7s. 6d., double 14s. 6d., from the secretary, D. J. Rushton, 1088 Stratford Road.

South-West London Chemists' Association and Branch of the Pharmaceutical Society. Outing to H.M.V. Gramophone Works, Hayes, Middlesex. Cbarabanc will leave the "Plough," Clapham, at 1 p.m. Small charge per member will be made. Those wishing to go communicate with Mr. H. G. Tibbett, secretary

Royal Society of Arts, John Street, Adelphi, London, W.C.2.
Ordinary meeting at 8 p.m. "New Developments in
Hydraulic Pneumatic Engineering," by Mr. J. O. Roving.

Birkenhead and Wirral Pharmacists' Association. Address by Mr. C. W. Cook, Hoylake, on "What Interests Chemists Most," at Woodside Hotel, at 8.30 p.m.

Liverpool Pharmacy Club. Informal dance from 8 to 11.30 p.m., 18 Colquitt Street. Tickets (including refreshments) 2s. 6d. each.

**Leeds and District Branch of the Pharmaceutical Society and
Retail Pharmacists' Union.** Joint annual dinner, Hotel
Metropole, Leeds, at 7 p.m.

Thursday, November 14

London Chemists' Sports Club and Script Sports Club. Annual dinner, prize distribution and dance. Hotel Russell, Russell Square, W.C.1. 6 p.m. for 6.30 p.m. Tickets, 12s. 6d., from Mr. W. E. Swanston, 140 Hornsey Road, Holloway, N.7. Application before November 9.

VISION AND LAWN TENNIS.—An arrangement has been made between the Lawn Tennis Umpires' Association and the Joint Council of Qualified Opticians whereby the L.T.U.A. are prepared to accept a certificate of visual efficiency in respect of their umpires or linesmen from any J.C.Q.O. optician.

Stock Exchange Prices

£1 Shares unless otherwise stated	Dec. 31, 1922.	Sep. 30, 1923.	Oct. 31, 1929	s. d.	s. d.	s. d.	s. d.
Allen & Hanbury's, 7% Pref'd. Ord.	21	6	20	6	21	3	
Analg., Dental Co., 8% Pref'd. Ord.	21	0	19	9	19	3	
" "							

Pharmaceutical Society

of Great Britain

Council Meeting

A MEETING of the Council was held at 16 Bloomsbury Square, London, W.C.1, on November 6, Mr. L. Moreton Parry (president) in the chair. All the members were present.

THE PRESIDENT, before the formal business was proceeded with, made sympathetic reference to the death of Mr. John Johnstone Forbes, a member of the North British Executive. Mr. Forbes, he said, died suddenly on October 29, at the age of fifty-six. He had been a member of the Executive since 1915. Mr. Forbes was apprenticed for five years to Mr. George Wright, of Buckie. Following his apprenticeship, he entered the School of Pharmacy of the Royal Dispensary, Edinburgh, under Mr. William Duncan, Ph.C., and passed the Qualifying examination in July, 1894, within a few months of his twenty-first birthday. After occupying situations in various parts of the country, including London, he started his business for himself at Denny, Stirlingshire, and in 1910, at the death of Mr. J. Ferguson, he bought the latter's business at Perth, where he spent the remainder of his life. He took an active part in the work of the National Health Insurance scheme, and was elected a member of the first Pharmaceutical Standing Committee. Subsequently he became chairman of the Perth Pharmaceutical Committee, and chairman of the Perthshire Pharmaceutical Committee. For two years he was vice-chairman of the North British Executive. He was formerly Honorary Pharmacist to the Perth Royal Infirmary and a past president of the Perth Rotary Club. Mr. Forbes's death, added the President, was very much regretted, not only by his colleagues on the North British Executive, but by all pharmacists who had known him.

Mr. GUTHRIE said that Mr. Forbes's death came as a great shock to his colleagues on the North British Executive. Practically the last work he did was on behalf of the Society, and the illness which caused his death came on after a meeting at Edinburgh. Mr. Forbes was a very able worker, and took the keenest interest in all that concerned the Society, more especially in the education of the younger section.

Mr. JACK associated himself with the tributes to Mr. Forbes, whose death, he said, was a great loss to the chemists of Perthshire, and the members of the North British Executive. Mr. Forbes was a man of sterling character, and, as already mentioned, a Rotarian, and he exemplified in his life all that was best in Rotary.

A resolution of sympathy with the relatives of Mr. Forbes was passed by the Council standing in silence.

ELECTIONS AND RESTORATIONS

Fifty-nine persons were elected members of the Society, and four as student-associates. One person was restored to the Register, and a number to the Society. The registrar reported that 215 persons had been registered as apprentices or students.

Five applications from North of Ireland chemists for registration under the reciprocity arrangements recently completed between the Society and the Pharmaceutical Society of Northern Ireland were accepted. The applicants were: Andrew Hamilton Cooke, 13 The Paddock, Chatham, Kent; Robert Henry Kerr, 39 Dunsford Avenue, Wimbledon Park, S.W.19; John King Lyons, 20 Victoria Park Road, E.9; Edmond Maguire, 40 The Vale, Golders Green, N.W.11; Bernard Murphy, 41 Hart Street, W.C.1.

EXAMINERS APPOINTED

The following were appointed as examiners for England and Wales for the ensuing year:—Arnall, Francis; Bentley, Arthur Owen; Berry, Harry; Borrowman, Agnes Thomson; Brady, Oscar Lisle; Brindle, Harry; Corfield, Charles Edwin; Davis, Harold; Driver, John Edmund; Evans, John; Fritch, Felix Eugene; Grier, James; Hampshire, Charles Herbert; Hemming, Frederick; Highfield, Fred Cholerton; Hill, Thomas George; Jones, Henry Humphreys; Lacey, Henry

Baker; Lewis, William Henry; Linnell, Wilfred Herbert; Lownds, Louis; Mackie, Henry Brown; Milner, Samuel Roslington; Newman, Frederick Henry; Peck, John Wicliffe; Price, Thomas Slater; Rankine, Alexander Oliver; Richardson, Donald Henry; Ridley, Thomas Moore; Robinson, Wilfrid; Sutherland, George Arthur; Tabor, Richard John; Taylor, Archibald Leonard; Wallis, Thomas Edward; Webb, Harry William; Williams, Kenneth Edward Nethercoate; Young, Arthur Edward.

The following were appointed as examiners for Scotland for the ensuing year:—Blackie, Joseph John; Boon, Alfred Archibald; Dail, John; Gilmore, John; Graham, Robert; John Douglas; Hunter, Matthew Verden; Matthews, James Robert; Meldrum, Martin; Milne, James Robert; Ramsay, John Henry; Stout, Henry; Wilson, Thomas.

The list of divisional secretaries in Scotland for 1930 was submitted showing that there was only one change from last year: Mr. Peter M. Duff, 143 Dumbarton Road, Partick, Glasgow, W.1, takes the place of Mr. William Thomson for the Hillhead district of Glasgow.

LEAGUE OF EX-SERVICE PHARMACISTS

The Executive Committee of the League of ex-Service Pharmacists reported the following resolution passed at their meeting on October 16, 1929:—“The Executive Committee of the League of ex-Service Pharmacists records its profound regret at the continued refusal of the Army Authorities to reform the conditions under which pharmacy is practised in the Army, and pledges the League to press with increased vigour for the improvements necessary to place the pharmaceutical service in the Army on a satisfactory basis both in peace and war.”

THE PRESIDENT announced that there was no correspondence, and he had not been asked any questions.

EDUCATION COMMITTEE

Alterations in the scholarships regulations, drafted in accordance with the suggestions of the Committee approved by the Council, were submitted by the Education Committee.

Mr. PECK said there were only two points to which he need call attention. The new regulations provided that a man who had started his training for the Preliminary Scientific examination, or who had passed that examination, was still eligible to compete for the scholarships. But the man who had started his training for the final Qualifying examination was not eligible to compete. The second point was that hitherto the competition for the Council examination prizes had taken place in June. This year it was found that those who entered the Pharmaceutical Chemist examination in July were unable to compete, and in future the examination would be held in August, and the result declared in October. The prizes would be awarded at the opening of the school. The report was adopted.

BENEVOLENT FUND COMMITTEE

The report of this Committee showed that eight applications had been considered, and grants made or recommended ranged from £13 to £30. In the Committee's report for the three months it was stated that twenty-six had been dealt with. In twenty-five of these, grants had been made, the total disbursements amounting to £606 10s. The following special contributions were acknowledged:—A. Wander, Ltd., £100; Leeds Branch of the Society and Retail Pharmacists' Union, £5 15s. 6d.; D. Anderson, £5 5s.; Derby and District Branch, £5 5s.; Birmingham Pharmaceutical Association, £3 15s. 6d.; Lancaster, Kendal and District Branch, £3 9s. 6d.; H. R. Crowther, £2; Cardiff Pharmacy Club, £1 17s. 3d.; Lowestoft and District Pharmacists' Association, £1 1s. Orphan Fund.—A. B. Makepeace, £6.

Mr. KEALL made special reference to the subscription sent by Wander, Ltd., who had previously contributed handsome sums to the Fund. He proposed that they should be thanked for the subscription and their continued interest, and he hoped their example would be followed by other manufacturers and firms throughout the country. The expenditure in connection with the Fund had been lower than last year, but he regretted that the subscriptions up to the present time had also

been a little lower. He hoped the members would retain their interest in the Fund, and in many cases renew it, for the needs of those it was sought to help were very great.

The President said he would like to be associated with the tribute to Messrs. Wander, and he also wished to say how gratifying it was to see the generous support given to the Fund by chemists who had weighing machines in their shops. This was a practical way of assisting the objects of the Fund. The report was adopted.

WAR AUXILIARY BENEVOLENT FUND

The committee of this fund reported that they had received seven applications during the month, and recommended grants ranging from £26 to £180. The quarterly report showed that eleven grants had been made, totalling £643. The report was adopted.

BRITISH PHARMACEUTICAL CONFERENCE

This committee reported that the following members were appointed as the Conference representatives on the Science Committee in the event of that committee being convened:—Mr. N. Evers, Mr. E. S. Peck, Mr. H. B. Mackie, Mr. G. R. Boyes. The following members were re-elected as the Conference representatives on the Editorial Committee:—Mr. R. R. Bennett, Mr. C. E. Corfield, Mr. F. W. Gamble. Mr. Murray reported on the provisional arrangements made for the Cardiff Meeting in 1930. The date of the Conference was fixed for the week commencing July 21, 1930. A letter was received from the secretary of the Aberdeen and North-Eastern Scottish Branch of the Society inviting the Conference to meet in Aberdeen in 1932. The secretaries were asked to thank the Aberdeen and North-Eastern Branch for their invitation, which was carried forward for further consideration at the next meeting of the Executive. The report was adopted.

FINANCE COMMITTEE

The financial statement showed that receipts since the last meeting, including a balance of £47 7s. 9d., amounted to £8,209 14s. 6d., comprising the following items:—Subscriptions, £143 17s.; registration fees, £774 18s.; examination fees, £25 2s.; certificates of qualification, £11 11s.; restoration fees, £3 3s.; School of Pharmacy, £2,498 10s.; Pharmacological Laboratories, £286 3s.; penalties, £147 14s. 3d.; "Pharmaceutical Journal," advertisements, etc., £1,825 8s. 5d.; "Quarterly Journal," £106 9s. 11d.; "Pharmaceutical Pocket Book," £33 17s. 10d.; "Year-Book Index," £19 7s. 6d.; "Calendar," £1 2s. 4d.; examination questions, £8 5s. 2d.; Pharmaceutical Press publications, £45 18s. 2d.; Registers, £4 17s. 3d.; "B.P. Codex," £92 19s. 5d.; "Forensic Pharmacy," £65 15s. 11d.; interest on investments, £272 16s. 5d.; wage deductions, £24 13s. 11d.; sundries, £21 16s. 3d.; transferred from deposit account, £1,750. Payments ordered at the last meeting amounted to £8,188 19s. 6d., leaving a balance of £20 15s.. The balances on the other accounts were:—Benevolent Fund (current account), £10 6s. 9d.; Benevolent Fund (donation account), £59 11s. 3d.; War Auxiliary Benevolent Fund (adverse balance), £203 14s. 7d.; Orphan Fund, £31 6s. 10d.. The report recommended that accounts amounting to £9,494 2s. 1d. be paid, and that the action of the secretary in making payments amounting to £1,304 15s. 1d. be approved. The Committee also recommended that the Corporate Seal of the Council be affixed to a request to the Bank of England for permission to hold Funding Stock in two accounts. The report was adopted. This was all the public business.

Branch Meetings

Guildford.—A meeting of the Guildford and District Pharmacists' Association and Branch of the Pharmaceutical Society was held on October 11, Mr. J. H. Mather in the chair. Mr. Frank Browne, Ph.C., gave a lecture on *Radium* before a large attendance. The speaker dealt with the discovery, the history, the reason for the enormous expense of the material, and its therapeutic uses. Specimens were shown and many questions were asked. Mr. W. Massey proposed, and Mr. E. Jones seconded, a hearty vote of thanks to the lecturer.

Leicester.—The opening meeting of the winter session of the Leicester and Leicestershire Branch took place on October 15. Mr. W. Westhead, who presided, called on Mr. A. R. Melhuish, vice-president of the Society, to address the members. Mr. Melhuish, who received an ovation, outlined the policy of the Society briefly, and expressed his pleasure in going round the College of Technology, which would soon be one of the best-equipped in the country. The chemist, he said, is something like an encyclopædia; he is expected to know something about nearly everything. Mr. Melhuish presented the prizes to the successful students at the recent examinations as follows:—Prizes given by the local Branch: Preliminary Scientific Examination, (1) F. A. Hudson; (2) Miss H. True. Chemist and Druggist Qualifying Examination, (1) J. L. Toon; (2) Miss L. Kay. The Le St. Dalmaz prizes given by A. de St. Dalmaz & Co., Ltd., Leicester: (1) J. L. Toon; (2) I. W. Hausen. A B.P. Codex, given by the Pharmaceutical Society to the most brilliant student, was awarded to J. L. Toon. Mr. Chamings, B.Ph., gave his report, mentioning the considerable alterations to the pharmacy laboratory, and the fitting up of the galenical laboratory (now almost completed), towards which £100 was furnished by the Branch. Mr. Westhead then handed over to the principal of the College a cheque for £100 from the Branch towards equipment of the pharmacy department. Mr. Kershaw paid a well-deserved tribute to the pharmacy students, and praised the labours of the advisory committee. Mr. A. E. Young proposed a vote of thanks to Mr. Melhuish. After Mr. Melhuish had responded, Mr. Toon thanked the donors of the prizes on behalf of the students, and paid a tribute to the principal (Mr. Kershaw) and the head of the department (Mr. Chamings).

London (W.).—A meeting of the West Metropolitan Branch was held in Slater's Restaurant, Oxford Street, on November 6, Mr. T. Morley Taylor in the chair. The object of the meeting was to hear a lecture by Mr. W. Deacon, member of the Institute of Radiology and of the Society of Radiographers, on *X-rays in the Life of To-day*. After a number of introductory remarks on the discovery of x-rays, the lecturer proceeded to explain their practical utility by means of a series of lantern slides. Pictures of plants were shown, and the application of the rays to the study of botany outlined. The type of rays employed in this work was very soft and delicate, and served to illustrate the degree of control exercised over modern apparatus. The veterinary and dental uses of the rays were shown by suitable slides, especially the examination of immature teeth. The progress of a barium meal was followed, and the detection of abnormalities described by the lecturer. In this branch of radiology great success had attended the use of sodium iodide, especially in kidney examination. Mr. Deacon also described the industrial uses to which the rays were put. In the discussion which followed, the chairman said the lecture had been full of interest, and asked the lecturer to explain the dangers to which operators were exposed. Mr. Deacon replied that the principal danger was the absorption of oxides of nitrogen set up by the sparking of the apparatus. Blood counts were taken, however, at regular intervals and long periods of rest were allowed. Mr. Melhuish said he thought the lecture was sufficient reward for having come. He thanked Mr. Deacon for the comprehensive nature of his discourse. Mr. F. Browne said he was interested in the application of x-rays to the detection of impurities in paper. Mrs. Freke said the lecture had been a very pleasant one to listen to. The chairman then proposed, and Mr. Evans seconded, a vote of thanks to Mr. Deacon, which was given with acclamation. Mr. Deacon returned thanks to the audience.

Newcastle-on-Tyne.—A meeting of the local Branch was held at Newcastle-on-Tyne on October 10, when Mr. Robert Pool delivered his presidential address on *The Separation of Dispensing from Prescribing*. He dealt very fully with the early history of dispensing, the different customs prevailing in Scotland, and showed that the pharmacist was the only person who was fitted by his training to dispense medicines. An interesting discussion followed, nearly a dozen members speaking. Mr. F. Gilderdale proposed a vote of thanks to the president for his instructive address.

Festivities

Glasgow Chemists' Whist Drive.

A SUCCESSFUL whist drive, under the auspices of the Glasgow Pharmacy Club, was held in the Highlanders' Institute, on October 15. There was an attendance of 150 players. Mr. Jas. Abbott, president of the Club, presided. During the dance which followed, the prizes, which were the gifts of Messrs. Scott and Turner and Mr. W. Wood Wilson, were presented to the successful competitors by Mrs. Abbott. The prize winners were: *Ladies*.—1st, Mrs. R. Dickson, 169; 2nd, Miss Grace Coates, 144; Consolation, Mrs. McGillivray, 104; lady playing as guest, Miss Ramsay, 147. *Gentlemen*.—1st, Mr. A. W. Calder, 155; 2nd, Mr. Wm. Thomson, 144; Consolation, Mr. J. Currie, 109. An innovation was a special prize to the losing lady at a particular table. This prize was awarded to Miss Lamb. Hearty votes of thanks were accorded the donors of the prizes and Mrs. Abbott.

St. Vincent Association's Dinner

The annual dinner of the St. Vincent Association was held at the Victoria Hotel, London, W.C.2, on October 17. There was a large gathering under the presidency of Mr. Maurice Menzies. Mr. Menzies, in proposing "The Association," said that twenty-one years ago he joined the St. Vincent Association, and mentioned the help he got from members in this country. Dr. Campbell McClure replied to the toast of "The Visitors," proposed by Mr. R. R. Coates. He paid a tribute to Mr. F. Ashley Rogers's work. Mr. Rogers, last year's president, was also entertained as a guest of the Association, and was presented with a gold wrist watch as a mark of esteem and affection by his fellow members on his partial retirement. The ladies of the party were presented with a handsome ebony box of Messrs. Pinaud's face powder with the compliments of the president and Madame Menzies. An excellent musical programme was provided by Mr. Darrell Steel, and an enjoyable evening closed with "Auld Lang Syne," sung in the correct fashion and led by Mr. G. Duncan Bowie.

Liverpool Smoking Concert

The Liverpool Chemists' Association and Branch of the Pharmaceutical Society held their annual smoking concert at the Midland Adelphi Hotel on October 30. Mr. J. J. Wallbridge in the chair. The sum of £100 was subscribed to the Benevolent Fund. Supporting the chairman were Mr. L. Moreton Parry, President of the Pharmaceutical Society; Mr. John Jones, ex-president of the Liverpool Chemists' Association; Messrs. H. E. Lescher, J. L. Hirst, H. Humphreys Jones, D. H. Evans, H. Wyatt, A. J. Ferriday, J. Rae, A. W. Ashcroft, Martin S. Hughes (treasurer), and Geo. Chubb (secretary); and Miss Dolbe (Liverpool Pharmacy Club). During an interval the company were addressed by Mr. John Keall, who said he was very pleased to have the privilege of coming to Liverpool to appeal to them on behalf of the Benevolent Fund, because that city, by its interest and support, set an example that might be followed by every branch throughout the country. It was a noble effort. He explained that there were two accounts—one to which legacies were placed and from which annuities and other grants were paid, and the other was what he would describe as the "current fund," out of which temporary grants were made. He thought that the branches and associations could help more than they had done by considering the appointment of a "benevolent secretary," preferably a lady. Another scheme that might be generally adopted was the one where the members assessed themselves a certain sum per week for the fund. On behalf of the Council he thanked the Liverpool Association for their interest and support extending over many years. He was particularly pleased to see so many students there that night as they were the pharmacists of to-morrow. Mr. L. Moreton Parry also expressed pleasure at seeing so many young people present. The much-appreciated musical programme was contributed to by Miss Dorothy Fletcher in songs at the piano; Miss Ched Brooks, comedienne; Mr. Gwili Richards, comedian; and Mr. Leon Weaver, baritone.

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PRICE LIST

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ISSUED QUARTERLY EIGHTEENTH YEAR OF PUBLICATION

CHANGES in prices for the last month continue to be few and of small importance. The drug index of prices stands at 133.8 for October, against 135.1 in September, which fairly indicates the position. In surgical dressings the figure remains unchanged at 181.6 which is the same since May. The principal changes in drugs are:—

Cost			Selling Price			
d.	per		16 oz. s. d.	4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
34	lb.	Ammon. bromidum ..	—	1 3	0 4	—
54	lb.	Anthemidis flores exot...	6 9	2 0	0 7	0 1
54	lb.	Anthemidis florum exot. pulv.	—	2 0	0 7	0 1
43	lb.	Anthemidis flores exot. sec.	5 3	1 6	0 6	—
5	lb.	Calci carbonas præcipi- tatus ..	0 8	0 3	0 1	—
48	lb.	Caryophyllum opt.	—	1 9	0 6	—
84	lb.	Coccus (silver grain)	10 6	3 0	0 10	0 2
96	lb.	Cocci pulvis ..	12 0	3 5	1 0	0 2
120	lb.	Ol. menthae Jap. (de- menth.) ..	—	4 3	1 2	0 2
168	gal.	Ol. olive (cream) ..	2 6	0 9	0 3	—
150	gal.	Ol. olive (sublime) ..	2 0	0 8	0 2½	—
120	gal.	Ol. olive (fine) ..	1 9	0 7	0 2	—
21	oz.	Sulphonal .. C	—	—	3 1	0 6

Business Changes

MR. ERWYN OWEN, chemist and druggist, has opened a new business at 345 High Street, Bangor.

RUSHTONS (CHEMISTS), LTD., chemists, Southport, will shortly open a new branch in Coronation Buildings, Lord Street.

MR. R. THURSBY, chemist and druggist, has purchased the business of Falconer & Co., chemists, 73 London Road, Salisbury.

Wills

MR. FREDERICK THOMAS CUTPER, of 115 High Street, Whitstable, Kent, chemist, left £5,504 8s. 6d., with net personality £5,076 7s. 4d. Probate is granted to George Frederick Cooper, of Leydhurst Gardens, Church End, Middlesex, son. He leaves everything to his wife for life and then between his children.

MR. JOHN REAY, of 89 Falmouth Avenue, Highams Park, Chingford, Essex, chemist and druggist, who died on December 20 last, aged 60 years, left estate of the gross value of £1,922 6s. 6d., with net personality nil. Probate of his will has been granted to his widow, Mrs. Hannah Reay, of the same address, the sole executrix.

MR. ARTHUR ERNEST ARCHER, of Epworth, near Doncaster, chemist and druggist, left estate of the gross value of £3,272, with net personality £7,966. Probate of the will, dated August 5, 1920, has been granted to his widow, Mrs. Alicia Margaret Archer, of the same address, and Gordon Brow Naylor, of Glengoyne, Vander Byl Avenue, Spital, near Birkenhead, banker's clerk. He left all his property to his wife absolutely.

Trade Notes

EVANS SONS LESCHER & WEBB, LTD., manufacturing chemists, Liverpool and London, have issued a special catalogue of Christmas gifts and seasonal lines.

WOOL VESTS.—E. Senior, Ossett, Yorks, advertises in this issue the Kozeni hygienic wool vest. Supplies are available through wholesalers or direct from the patentee.

THE ENO CALENDAR.—J. C. Eno, Ltd., 160 Piccadilly, London, W.1, invite chemists to make application, before December 10, for supplies of their 1930 pocket calendars.

VAPO-CRESOLENE.—Allen & Hanburys, Ltd., Lombard Street, London, E.C.3, announce the continuance throughout the winter of an extensive advertising campaign for Vapo-Cresolene.

GREENWOOD & REID, 19 Holborn Viaduct, London, E.C.1, and 57 Albert Road, Levenshulme, Manchester, invite inquiries from chemists for terms and particulars of Hames Royal Culture.

ALMANACKS.—Kay Brothers, Ltd., Stockport, emphasise the necessity for early application for supplies of their free book almanacks for end of the year distribution. Two slip labels should be sent with each request.

STUART WOOLF & FLEMING, LTD., Leith House, 47 Gresham Street, London, E.C.2, are marketing in this country a paper handkerchief of more than ordinary interest. The Tempo handkerchief is made of eight layers of cellulose, each of which has been rendered moist-



ture-proof. These eight layers form a complete handkerchief with an imitation hem-stitched border. They are safe in use and at the same time they are absorbent and so extremely soft in texture that there is no possibility of their causing irritation. The handkerchiefs are available in two forms, viz., plain and impregnated with eau de Cologne and menthol. Ample show material is available.

PEPPERMINT TABLETS.—Thompson & Capper, Wholesale, Ltd., Manesty Buildings, College Lane, Liverpool, are offering peppermint tablets packed in an unusual and attractive manner, as will be seen from the advertisement in this issue.

An attractively produced showcard is being issued by Parfumerie Barranger, Tudor Works, Abbey Road, Park Royal, London, N.W.10, in connection with Paloma vanishing cream. The printed matter is faced with a transparent tissue, and can be easily cleaned by wiping with a damp cloth.

CHRISTMAS NOVELTY.—An interesting novelty has been sent to us by Raphael Tuck & Sons, Ltd., Raphael House, Moorfields, London, E.C.2, in the shape of gramophone record Christmas cards. The cards are neatly boxed and can be sent through the post without damage.

NEW ANTISEPTIC MOUTH WASH.—OraSeps, Ltd., 7 Swan Lane, Upper Thames Street, London, E.C.4, announce elsewhere in this issue the introduction of OraSeps, a new antiseptic mouth wash. The product, which is of agreeable taste and appearance, will be extensively advertised.

RUBBER BRUSH MATS.—British Rubber and Associated Productions, Ltd., Bridgeway House, Hammersmith, London, W.6, have sent us a sample of rubber brush matting suitable for the requirements of chemists. As the mats are made from good quality rubber and moulded in one piece it is claimed that the pips will not break off.

THE AERONEZ AIR FILTER, a sample of which we have received from H. A. Goodall & Co., Ltd., Rena House, 32 Vauxhall Bridge Road, London, S.W., the sole agents, is a pleasant smelling disinfectant tablet retailing at a popular price. A showcard is supplied with each dozen.

PRECAUTIONS AGAINST FREEZING.—The Royal Insurance Co., Ltd., 1 North John Street, Liverpool, have issued a card giving details of precautions which should be taken to prevent the freezing of water in motor-car radiators. The glycerin-water and spirit-water mixtures are dealt with the proportions for various temperatures being shown in tabular form. As chemists receive so many inquiries on this subject they should obtain (gratis) a copy of the card and keep it handy for reference. Application should be made either to the above address or to the company's offices at 24-28 Lombard Street, London.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1929, p. 333.

(From "The Trade Marks Journal," October 16, 1929.)

- "CARMWIN": with label design with address of applicant; for a medicated wine (5). By Dhondjee Row Mawnya, 11 Broadway, Madras, British India, 1950,32.
- "CHEMOO": for food substances (42). By Vitaceum, Ltd., 2 Stockholm Road, South Bermondsey, London, S.E.16 503,808
- "R & B" on conventional hexagonal design ("R & B" disclaimed); for mineral waters, etc. (44). By Reynolds & Branson, Ltd., 13 Brigste, Leeds. 01,693. (Associated.)
- "REAL ESSENCE" on upright label design; for perfumery, etc. (43). By G. Boehm, Rathenaustrasse 26, Offenbach am Main, Germany, 99,851. (Associated.)
- "CURELLO": for hair preparations (48). By Curello G.m.b.H., Sandbrink 14, Wernigerode am Harz, Germany. 01,920.
- "CHARMIGON": "CHARMOITA": for perfumery, etc. (48). By The Detorton Perfumery Co., Ltd., Bayley House, Bayley Lane, Coventry. 505,304/305.
- "VEGEX": for perfumery, etc. (48). By J. & E. Atkinson, Ltd., 24 Old Bond Street, London, W.1. 505,844.
- "KISNONA": for perfumery, etc. (48). By The Ham Frith Chemical Co., Ltd., 1 Gibbons Road, Stratford, London, E.15. 505,151.

(From "The Trade Marks Journal," October 23, 1929.)

- "IGEEA": for chemicals (2) and for medicinal chemicals (3). By Bayer Products, Ltd., 31 Basinghall Street, London, E.C.2. 505,980/959. (Associated.)
- "SWEDISH REDUCING BATH" on design of dancing girl and bubbles with words "There's Beauty in the Bubble": for bath salts made in Sweden (3) and (48). By The Anglo-Swedish Manufacturing Co., Ltd., 26 Old Burlington Street, London, W.1. 503,339/338. (Associated.)
- Circular design with leaf-like centre; for medicinal chemicals (3). By "Cristallo" A.G., Thuis, Switzerland. 504,875.
- "CONSTANTINO": for medicated wine (3). By Corporacao dos Vinhos do Porto Constantino, Ltd., 3 Rua Valente Perfeito, Villa Nova de Gaya, Portugal. 504,185. (Associated.)
- "CIVOLISIN": for lysins (5). By Cavendish Chemical Co. (New York), Ltd., 137 Regent Street, London, W.1. 504,454.

Births

Notices for insertion in this column must be properly authenticated.

ROBINSON.—At 59 Midland Road, Wellingborough, on October 16, Doreen Gwendolen, the wife of Robert J. Robinson, M.P.S., of a son.

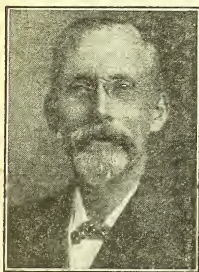
Marriages

JONES—THOMAS.—At Dewi Sant Church, Cardiff, on October 27, David Jones, chemist and druggist, to Muriel Margaret Thomas.

Deaths

BARFORD.—In London, on October 7, Aileen Gertrude, younger daughter of Mr. H. W. Barford, chemist and druggist, Ryde, aged twenty-five.

FRANCIS.—At his residence, The Fern House, Little Marlow, Bucks, on November



MR. G. BULT FRANCIS

8, George Bult Francis, F.C.S., chemist and druggist, late director of The British Drug Houses, Ltd., aged seventy-nine. Mr. Francis was educated at the City of London School, and afterwards spent two years in Germany. He then acquired a knowledge of retail pharmacy as a pupil of Mr. T. P. Gosling, of Diss, and after studying at the Pharmaceutical Society's school, passed the Minor examination in 1870. Mr. Francis then joined his father's business, Hearon, Squire & Francis, and in 1875, after gaining experience in every department, he represented the

firm until 1883, when he was called home to take over the management. In 1899 the business was converted into a limited company and Mr. Francis was appointed a director. It was in 1909 that the amalgamation with The British Drug Houses, Ltd., took place, and Mr. Francis was elected a director. His services were chiefly on the commercial side, while his sound knowledge of the drug trade, and especially crude drugs, was freely drawn upon. As the company's representative at the Mincing Lane auctions and on 'Change, Mr. Francis held a unique position in the Metropolitan wholesale drug trade. He retired from active work at the end of 1922. For many years Mr. Francis was an auditor of the Pharmaceutical Society. The funeral will take place on November 9, at 2.30 p.m., at Little Marlow Cemetery. Cars will meet the 1.5 p.m. train from Paddington, arriving at Bourne End at 2.3 p.m.

MURCHIE.—At the Royal Infirmary, Glasgow, on October 17, suddenly, Mr. John Murchie, chemist and druggist, late of Bridgeton. Mr. Murchie qualified in 1896.

NEVE.—On October 11, following a motor accident, Miss Annie Neve, Ph.C., dispenser at the Royal Eye Hospital, London, S.E.1, aged sixty-eight.

RAILTON.—At York, recently, Mr. Charles Thomas Railton, aged fifty-seven. Mr. Railton, who had been in the employ of Bleasdale, Ltd., manufacturing chemists, York, for thirty-five years, for the past nineteen of which he had held the position of cashier, was cycling to business when he fell from his machine. He was admitted to York City Hospital, but it was found that life was extinct. The funeral at York Cemetery was attended by Mr. A. Humphreys (chairman of the

directors), Mr. T. C. Atkinson (managing director), Mr. R. C. Kettlewell (secretary) and a large number of the staff of Messrs. Bleasdale.

ROBERTS.—Recently, at his residence, 96 Station Road, Ellesmere Port, Birkenhead, Mr. Thomas William Roberts, chemist and druggist, aged fifty-six. Mr. Roberts came to Ellesmere Port forty-four years ago, and for many years carried on a pharmacy in Dock Street, from which he retired in 1910.

STANCLIFFE.—Recently, Mr. James Harold Stancliffe, chemist and druggist, The Green, Idle, Bradford, aged thirty-two. Mr. Stancliffe leaves a widow and one child.

Personalities

MR. J. E. CARPENTER, chemist and druggist, Sandwich, has been elected to the town council.

ALDERMAN R. A. METCAL, chemist and druggist, King's Lynn, is mayor-elect of the borough.

MR. J. RIGHTON, chemist and druggist, Southport, has been elected a member of the local Insurance Committee.

MR. G. TODD, chemist and druggist, Oldham, was a successful candidate in the recent local municipal elections.

MR. W. T. GRAHAM, chemist and druggist, East Ham, London, E., has been appointed a member of the local Insurance Committee.

MR. FRED A. LUND, chemist and druggist, Scarborough, recently addressed the local Rotary Club on "Chemists and Their Work."

MR. J. FLINTON HARRIS, Ph.C., Northampton, gave an address on the "History of Pharmacy" before the members of the local Rotary Club recently.

MR. W. A. DAMON, B.Sc., F.I.C., has been appointed chief inspector of alkali, etc., works, in succession to Dr. T. L. Bailey, Ph.D., F.I.C., who has retired.

MR. J. BOOTH, chemist and druggist, Farnborough, Hants, has been appointed a member of a committee formed by the local chamber of commerce to promote a trade exhibition.

A CERTIFICATE of NATURALISATION has been granted to I. Furst, chemist and druggist, 239 Langside Road, Crosshill, Glasgow, and to Eva M. Malmberg, medical practitioner, 48 Copers Cope Road, Beckenham, Kent.

SIR F. G. HOPKINS, Professor of Biochemistry in Cambridge University, and DR. EIKMAN, Utrecht, have been jointly awarded the 1929 Nobel Prize for medicine in recognition of their discoveries in connection with vitamins.

FROM Press cuttings which have reached us we learn that Mr. Alfred D. Purse, chemist and druggist, Salem Street, Sunderland, made the most of Pharmacy Week by giving an interview to a local reporter on the functions of the chemist in addition to making an attractive window display.

MR. JOHN CAMERON, chemist and druggist, Peiping, China, is the author of a series of chemical analysis tables published in booklet form for the benefit of pharmacy students who are studying chemistry. The booklet has been officially adopted by the Executive Committee of the North China Pharmaceutical Society.

Information Department

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

B/311. Amora hair wash	C/511. Procto
C/211. Basilium	C/211. Quinosaal (for the hair)
C/3110. Ionised iodine	L/111. Ramanol
C/3110. Ironal	L/111. Sureinol
B/411. Peroxide nail stick	B/511. Walkwell arch support

Observations and Reflections

By Xrayser III

Company Shareholders,

your point out, are now given the means, with the exercise of care and intelligence, of restraining unworthy directors from acting in disregard of the company's interests, and it would appear from your general survey of the situation (*C. & D.*, November 2, p. 532) that everything in the limited company garden, if not exactly lovely, is so nearly so that the interests of shareholders are better safeguarded than at any former period. This is all very well in its way, but it seems to me that, the more Parliament improves, the registered company as a part of the machinery of industry, the more serious becomes the outlook for independent traders, including chemists. While recognising that the limited company provides what someone has described as the ideal form of partnership, I am concerned about the way in which the professional side of the chemist's business is passing increasingly under the control of capitalists without any pharmaceutical qualification. Because the business of the chemist and druggist is primarily a trade, and so lends itself to exploitation by capitalists, I see no reason why we should patiently submit to our professional qualification being simultaneously exploited. It should in time, I think, be possible for such amendment to be effected in the pharmacy law of this country that all the directors of any company engaged in carrying on the business of a chemist and druggist must, so far as that business is concerned, be duly qualified chemists. Moreover, they ought all to be real directors, holding among them an appreciable portion, if not the greater part, of the company's share capital invested in our business. This may seem a vain thing to suggest, but the problem confronting us is a serious one; and we ought to be making some attempt to grapple with the situation.

Another Way

in which our professional qualification might be safeguarded would be to have in existence an organisation the membership of which should be so attractive that no registered chemist would like to be outside it. But no one should be permitted to continue as a member of the organisation I have in mind if at any time he or she were to enter the service of a concern not entirely owned by registered chemists. What I am thinking of is an organisation, say in the nature of a club, which should offer so many advantages to its members that it would be regarded as a serious thing not to be entitled to share them. My idea may appear to be utopian in character, but it is well worth thinking about. Study of trade union methods will assist anyone who cares to develop the idea, but the obvious essentials of a satisfactory scheme are a comprehensive membership of the suggested organisation and the accumulation of funds which must be far from inconsiderable. We might, of course, endeavour to solve the problem in the way suggested by a "Looker-On" (*C. & D.*, November 2, p. 541), by combining with the medical profession; but this would almost certainly involve a separation of our trading and professional functions, with pharmacy and dispensing parted from the business of the chemist and druggist as it is usually conducted to-day.

Disappointment

must be the prevailing feeling in the minds of your readers who perused the report of the recent conference of representatives of Pharmaceutical Committees (*C. & D.*, November 2, p. 525), particularly if they also grasp the significance of the comments of your correspondent "Diphthong" (p. 542), who actually took part in the proceedings. Apparently, the main object of those who conducted the conference was to secure such deputed authority as would enable them to make any terms they think fit after further negotiation with the Ministry of Health. It is inconceivable to me that inability to secure better terms than the prevailing ones will be regarded by our negotiators as justifying advice to terminate our contracts. At the same time, it is

difficult to see how the Ministry can give any guarantee that the drug fund shall in future be sufficient, even at times when epidemics shall prevail. Pathetic in the extreme was the resolution passed on the proposal of the London delegates; but they might have been expected to take the "economy" line, in view of the attitude adopted in London towards medicines which are allowed in all the surrounding areas, but are unobtainable by insured persons in the London area as part of the treatment for which they have paid. No greater mistake could be made by chemists than to support any movement for restriction within particular limits of the "proper and sufficient" medicine which doctors may choose to order for their patients who are insured persons. Sooner or later, the injustice of expecting chemists to suffer because insured persons are permitted to enjoy their full rights must come home to a majority of our legislators.

There is One Feature

In the character of the quack—whether professional or amateur—which does not become less evident from generation to generation. However specious and plausible may be the appeal which he or she makes, its chief value resides in long words, preferably words and names obscure and occult. It would be very difficult to offer a suggestion as to the origin of Madame Enault's (*C. & D.*, November 2, p. 542) remarkable name for her specific—"The Celebrated Malachite." The learned lady must have met with it in the course of her promiscuous studies and it caught her fancy because of its rarity. This Italian professor calls to mind another of the same nationality (?) whose endeavours to impose himself upon the English public were of an altogether more ambitious order than the parading the streets of a provincial town with a brass band.

As this Particular

quack is not often referred to it may well be to give the whole of the title to his pamphlet published in 1801. It reads: "A Dissertation on the Extraordinary Attributes and Inherent Virtues of Fixed Phlogistic Earth, first discovered at Venice by Doctor Innocenzo della Lena of Lucca; but neither Fellow or (sic) Member of any Academy. Submitted to the Royal Society of Arts, and Sciences of London, For the Purpose of undergoing a chymical Analysis and public Trial, as an universal and infallible Remedy in every Distemper, External or Internal, Acute, or Chronic, incident to The Human Frame. To which is added, A Succinct Memorandum, Presented to the Medical Society, on the same subject, with the necessary Rules and Instructions to be observed in the Use and Application of this incomparable Specific, for the Treatment and Cure of the Disorders therein specified." It is not necessary to read beyond this title-page to understand that the author had a remarkable command of the English language, or that he had secured the services of some capable denizen of Grub Street, or what is more likely to be correct, the innocent doctor "of Lucca," was a doctor innocent "of Lucca."

The Pamphlet

consists of about seventy pages extolling the medical virtues of some substance the author calls Fixed Phlogistic Earth. It incorporates "A Dissertation" to the Royal Society, and "a Memorandum delivered to Dr. Sims, president of the Medical Society." These are written in an excellent style and show an acquaintance with the medical phraseology of the day as well as with a sufficiency of chemical terms to make them convincing to the merely partially informed reader. But what an audacious piece of bluff it was to present to the Royal Society for its consideration a substance said to contain "fixed phlogiston... extracted from the three kingdoms of nature." We are to believe Dr. Innocenzo della Lena (who said he was "physician to the Marquis de las Casas") he actually did succeed in imposing upon Dr. Sims; but other members of the Medical Society were more cautious and Dr. Innocenzo had to endure the mortification of hearing some of them saying "quack! quack! quack!"



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PATENTS AND TRADE MARKS.

There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail and Wholesale Drug Trade can avoid by consulting efficient agents who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. **FRANKLINS GRATE.**

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Editorial Articles

When Analysts Differ

CONFLICTS of opinion between analysts are a perennial source of vexation. They have frequently been known to arise in proceedings under the Sale of Food and Drugs Acts, and there an arbitrary method of deciding them has been supplied by the Legislature. If the defendant's analyst says that he differs from the findings of the official analyst the "third" sample (i.e., the third portion of the divided purchase which is the subject of the proceedings) may be sent by order of the Court to the Government Chemist for his report and the case is adjourned to enable this to be done. It does not necessarily follow that the Government Chemist's report will confirm either of the two previous analyses; in point of fact it is by no means an unusual thing for the third report to differ materially from both the others, and we have known cases in which magistrates have given it up and have refused to convict in the face of conflicting evidence. That is a perfectly proper and reasonable course to adopt. There must be some limit to the number of contradictory analyses the Court will be prepared to listen to, and as the onus is upon the prosecution to prove their allegations, the magistrates will be fully justified in insisting upon the fulfilment of that obligation. Whilst on this subject it may be of interest to quote the terms of the Food and Drugs (Adulteration) Act, 1928 (the Act consolidating all previous enactments thereon), as to the analysis of samples. It will be borne in mind that the inspector who makes purchases on behalf of the local administrative authority is now officially known as a "sampling officer." Section 17 of the Act is as follows:—

(1) Where a sampling officer procures a sample of food or of a drug, he shall, if he suspects the sample or the article from which the sample is taken to have been sold contrary to any provision of this Act, or that the provisions of this Act have otherwise been infringed with respect to that article, submit it to be analysed by the public analyst of the place for which he acts.

(2) Any purchaser of an article of food or of a drug shall be entitled to submit it to be analysed by the public analyst of the place in which the purchase was made.

(3) The public analyst shall, upon payment to him of a sum not exceeding 10s. 6d., as soon as practicable analyse any sample sent to him in pursuance of this Act, and shall give to the person by whom the sample is sent a certificate specifying the result of the analysis in the form set forth in the First Schedule to this Act, or a form to the like effect.

(4) Where there is no public analyst for the place for which the sampling officer acted or in which the purchase was made, the sample shall be submitted to and be analysed by the public analyst for some other place; but in such a case the sum payable shall be such sum as may be agreed. . . .

Then Section 31 gives power to the Court to refer the third sample to the Government Chemist:—

The Court before which any proceedings are taken, or an appeal heard, under this Act may if it thinks fit and

shall upon the request of either party, cause any article of food or drug to be sent to the Government Chemist, who shall make an analysis and give a certificate of the result of the analysis; and the expense of such analysis shall be paid by the prosecutor or the defendant as the Court may by order direct.

It will be observed that the Court has no option but to refer the dispute between rival analysts, if either party to a prosecution should so demand, to the Government Chemist. It does not necessarily follow, however, that the opinion of the Government Chemist is to be taken as conclusive—the statute does not make it so, though, naturally, it carries great weight. The Scottish Courts have, in fact, definitely decided that it is not necessarily conclusive, and although the point has not been tested it is practically certain that the English Courts would take the same view. In the case of *Fyfe v. Hamilton* (1894), reported in *Adam*, vol. 1, p. 484, one analyst certified milk as being deficient in milk fat to the extent of 15 per cent, whilst another analyst certified it as containing the full percentage. Thereupon the third sample was sent to the Government Chemist, who certified that it was deficient to the extent of 26 per cent. The defendant was acquitted; and the Court of Judiciary held that the acquittal was right and that the certificate of the Government Chemist was not conclusive. A similar decision was given in the case of *Todd v. Cochrane* (1901), reported in *Scottish Law Reports*, vol. 38, p. 801. It is therefore clear that three different analysts may reach three different conclusions, and that the Court may reject the evidence of all of them if it is not possible to come to a decision otherwise.

Declining Trade in Oilseeds

THE progress of our trade in oilseeds and oils when commented on in our issue of July 13 (p. 62) was up to that period well maintained since the beginning of the year. This was indicated by the extent of incoming supplies of raw materials, with the one important exception of linseed. The position of linseed at that time was already overshadowed by adverse crop indication in the River Plate, and began to develop signs of buoyancy in anticipation of a growing shortage. During the last few months events have been of a rather sensational character, with prices rising rapidly under disquieting reports as to prospects of future supplies, and great pressure of foreign buying, particularly on American account. The phenomenal stringency which thus developed was aggravated, of course, by speculation, which had a stimulating effect on the demand for other oil-bearing products, and tended to restrain operations by home crushers in the face of keen Continental competition in linseed oil in this market. This competition is emphasised by the fact that home imports of this oil for the nine months to the end of September were as much as 20,239 tons, thus overlapping the exports of home-made oil by roughly 5,500 tons, similar facts applying to the trade in oil-cake. To that extent, home crushers have been badly handicapped in spite of the keen American demand for European oil, while the home outlet for oil and cake has been disappointing. Unfortunately, there is not much hope of relief for crushers from the prospect of serious scarcity of linseed for a long while to come, although market conditions have been reactionary lately, partly due to speculative resales and weaker Argentine cable advices. The tiding over of the remainder of this season threatens to be very irksome, as it is unlikely that much new crop Argentine seed will be actually shipped before the earlier part of January. At this period a year ago about 192,000 tons were afloat to European ports from the River Plate and India, whereas more recent figures were not even one third of that amount. This, together with a rather smaller estimated unshipped surplus than existed at the same date last year, means that a severe squeeze is inevitable, especially in the event of additional pur-

chases by America. The supplies drawn by that country from the Argentine so far this year total fully 500,000 tons, or approximately 70 per cent. more than in the corresponding period of last year. The home receipts from this source last month were conspicuously small at 6,770 tons, against 27,698 tons for September last year, but the total from all sources fortunately amounted to 26,410 tons, due to the exceptionally heavy contribution from British India at close on 20,000 tons, making the aggregate from the latter source for the nine months 42,959 tons, against only 28,659 tons in 1928. Little significance need perhaps be attached to the recent setback in seed prices, on an erratic and hesitating market, prices fluctuating down to about £21 12s. 6d. per ton for Argentine seed near arrival at Hull, with new crop at around £20 for Jan.-Feb. shipment. Undoubtedly the market has been affected by abnormally low freights costs due to the paralysis of shipping in grain and the existence of an unwieldy supply of tonnage waiting for employment in South American waters. Our total imports of linseed for this year will be at well under the normal, and presumably still smaller in the coming year, unless the unexpected happens in future crop forecasts from the Argentine. The figures given below clearly indicate the serious decline which has taken place in our trade in seeds and other oil-bearing products:—

U.K. Imports	Sept. 1928	Sept. 1929	Jan.- Sept. 1928	Jan.- Sept. 1929	Decrease or Increase
	Tons	Tons	Tons	Tons	Tons
Linseed ..	32,079	26,410	284,088	238,856	-45,232
Cottonseed ..	40,807	31,442	427,913	419,562	-8,351
Soya beans ..	22,104	8,021	168,159	154,121	-14,038
Castor seed ..	3,794	5,260	26,756	25,200	-1,556
Rape seed ..	4,345	1,745	30,070	21,543	-8,527
Ground nuts ..	5,148	8,136	113,903	109,354	-4,549
Copra ..	5,784	10,071	38,611	63,736	+25,125
Palm kernels ..	9,927	18,941	121,548	113,678	-7,870
Totals ..	123,984	110,086	1,211,048	1,146,050	-64,998

It will be seen that in the nine months there is a deficit of over 45,000 tons in linseed, which is precisely one-half of the whole deficit amounting to about 90,000 tons in all raw materials specified, with the exception of copra, which alone denotes a gain of 25,125 tons. Our trade in copra has steadily increased, with a large portion, however, re-exported. There has been a big decrease in cotton seed receipts from British India of about 140,000 tons to 54,455 tons, but this has been largely made up by the larger quantities contributed from elsewhere, especially Egypt, which country accounts for 226,927 tons, against only 114,151 tons in 1928, so that only a comparatively small decrease is shown on balance, and freer supplies are now being attracted from Egypt since demand has been stimulated by the considerably reduced prices ruling lately. The decrease in soya beans is regrettable, and may be attributed to higher price under pressure of Continental buying, but our imports will doubtless improve again at the more normal values now ruling. Less satisfactory conditions have also prevailed in the trade for ground nuts and palm kernels, but the imports of the latter for September were considerably better.

Westminster Wisdom

Notes on Parliamentary Matters

MANUFACTURE OF NOXIOUS DRUGS

The Home Secretary (Mr. Clynes), replying on October 31 to a question put by Mr. Mander, stated that in this country eight firms are at present licensed to manufacture medicinal opium, heroin, cocaine or morphine (i.e., pure drugs under the Acts):—Five to manufacture medicinal opium; one to manufacture medicinal opium, morphine and heroin; one to manufacture morphine, heroin and cocaine; one to manufacture cocaine. No information was available as to the amount of capital involved or the number of persons employed, but the number is certainly under fifty.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts

Local Reports

ENGLAND AND WALES

Devon.—At a meeting of the Pharmaceutical Committee was held at Exeter recently, Mr. W. J. Sheppard in the chair. The secretary reported that a reminder with reference to regulations for marking prescriptions "urgent" had been sent by the Insurance Committee to all doctors on the Devon panel. Mr. John Taylor was nominated to serve on the Devon Insurance Committee.

Nottingham.—At a meeting of the Nottingham Insurance Committee, held on October 25, it was reported that the analyst's certificate on a test prescription disclosed the following discrepancies in ingredients:—Sodium salicylate, 10 per cent. excess; sodium bicarbonate, 2.5 per cent. deficiency; and ammonium carbonate, 20 per cent. excess. The chemist did not appear before the Pharmaceutical Service Subcommittee, but he forwarded a letter. The Subcommittee were of opinion that the explanation contained in his letter was not satisfactory, and recommended that, as the chemist had been severely reprimanded in 1926 for supplying a mixture that was found on analysis to be 20.2 per cent. deficient in ammonium carbonate, the Minister of Health be requested to withhold the sum of £1 ls. from him.

Salford.—At a recent meeting of the Insurance Committee it was reported that during 1928, 705,161 prescriptions had been dispensed at a cost of £25,066. The number of chemists on the panel was seventy-four, and the number of shops 114, of which fifty-eight were in the city of Salford. During 1929 fourteen medicines and four appliances had been taken for testing, and only one case was referred to the Pharmaceutical Service Subcommittee, the sample in this case being refused after it had been dispensed.

Smethwick.—At a meeting of the Insurance Committee, held on October 29, the Pharmaceutical Service Subcommittee reported with reference to two cases of alleged faulty dispensing. In the first case, a letter was received from the Ministry of Health stating that the Minister had decided not to impose any penalty, as originally recommended. In the second case the subcommittee considered a report from the committee's analyst with reference to the following test prescription:—Sodii. bibor., 80 gr.; potass. bromid., 80 gr.; sodii. bromid., 80 gr.; ammon. bromid., 80 gr.; mist. chlorof., to 8 fl. oz. The report of the analyst indicated a deficiency of 30 per cent. of sodium bromide. The subcommittee were informed that the prescription in question was dispensed by the manager, who stated that a new supply of sodium bromide was obtained about a fortnight before the test prescription was received, and that the bromide was received in a corked bottle, from which he filled up the stoppered bottle for stock. A small quantity of the drug was left in the corked bottle. When the prescription in question was dispensed he weighed out the quantity from the corked bottle. It was submitted by the chemists who are members of the subcommittee that it is virtually impossible under ordinary conditions to prevent some absorption of moisture by sodium bromide. The subcommittee considered it desirable that further expert advice should be obtained, and they deferred consideration until their next meeting. The Benefits Subcommittee considered a case in which the mother of an insured person stated that a doctor had refused a further supply of ointment, and that it was in consequence necessary to purchase a supply at a cost of 5s. The explanation of the doctor was that the ointment had been used with needless extravagance. It was decided to take no action.

West Ham.—At a meeting of the Insurance Committee, held recently, the chairman stated that since 1912 the number of chemists supplying drugs and appliances had increased from forty-two to sixty-three, and during that period chemists had been paid £122,508 for medicines, drugs and appliances, prescribed on 3,792,895 prescriptions. The committee had, during the last four years, made three tests of medicines and appli-

ances at every panel chemist's shop. In twenty-two cases only had chemists been called upon to account for errors in dispensing or with regard to the quality of drugs and appliances supplied.

Testing of Insurance Prescriptions

The Middlesex County Council, at its meeting on October 31, adopted the following report from the Public Health and General Purposes Committee:—

"In 1927, after prolonged negotiation with the Middlesex Insurance Committee and the Minister of Health, the County Council, with the Minister's approval, entered into an agreement with the Insurance Committee under which 115 samples of medicines dispensed from insurance prescriptions were to be procured each year by the county inspectors and analysed by the county analyst. Of these, 50 samples were to be dealt with under the provisions of the Sale of Food and Drugs Acts, and the other 65 samples were to be dealt with under a special procedure devised and recommended by the Minister of Health. This procedure required that the county analyst's report should be submitted to the Insurance Committee, and that that Committee should decide on the action to be taken if it were found that the medicines had been improperly dispensed. The agreement provides that the Committee should pay to the County Council an inclusive fee of 25s. in respect of the expense of procuring and analysing each of the 65 samples per annum. Before this scheme had been fully put into operation, the Minister of Health issued new regulations under the National Insurance Acts, which had the effect of relieving dispensing chemists from any obligation to 'sell' dispensed medicines to inspectors under the Sale of Food and Drugs Acts. Since then it has been, by reason of the Minister's action, impossible to use the Sale of Food and Drugs Acts in connection with the dispensing of Insurance prescriptions, and therefore impossible to put into operation in its entirety the scheme agreed between the County Council and the Insurance Committee and approved by the Minister. The County Council's officers have continued to deal with Insurance prescriptions at the rate of 55 each year under one part of the scheme, and the Insurance Committee, it is understood, have made deductions from the remuneration of certain dispensing chemists in some instances where the report of the County Analyst has been unfavourable. Your Committee are of opinion that this part of the scheme is not satisfactory from the point of view of the County Council, as the inspectors when procuring samples are acting purely on behalf of the Insurance Committee and not on behalf of the County Council. . . . In view of these circumstances the Council decided to give three months' notice to determine the scheme."

SCOTLAND

Aberdeen.—At a recent meeting of the Burgh Insurance Committee it was recommended that a fine of £10 be imposed on a firm of Aberdeen chemists for supplying white lint instead of boric lint. The report on the case by the Pharmaceutical Service Subcommittee stated that the manager admitted a mistake had been made by an assistant. Coming as it had done on the top of a series of more serious breaches of the rules, it caused great disquietude. Councillor Watt, the convener of the committee, said that when all the circumstances were considered, the imposition of a fairly substantial monetary penalty was called for, and the committee came to the finding that a fine of £10 should be recommended. This finding was unanimously approved. Ex-Baillie Beaton said it reflected the greatest credit on Aberdeen chemists that there were so few such cases.

Dundee.—At a recent meeting of the Dundee Insurance Committee, the Medical Benefit Subcommittee advanced the opinion that there had been excessive prescribing during 1928 by three practitioners, and recommended the Committee to deduct from the remuneration payable to them sums of £3, £20 and £20 respectively. It was reported that in the last two cases the practitioners had been previously surcharged, and the Committee felt it was necessary to impose substantial penalties. The recommendation was approved.

British Pharmaceutical Conference

We have received the following communication from the honorary general secretaries:—

"The papers communicated to the British Pharmaceutical Conference, at Dublin, in June last, were sufficient to occupy three meetings of the Science Section, and the discussions on the papers were both interesting and instructive. These papers, together with a report of the discussions, have now been published in the "Quarterly Journal of Pharmacy and Pharmacology," Vol. II, No. 2, 1929. Members, honorary members and student associates of the Pharmaceutical Society of Great Britain are entitled to receive the issues of the "Quarterly Journal" on application and payment of 10s. 6d. per annum; corresponding members of the Conference who pay a subscription of 10s. 6d. annually are entitled to receive the "Quarterly Journal" on application. Next year the Conference will meet at Cardiff, and we are anxious to remind all members that we shall be pleased to receive original communications on research work done in any of the subjects allied to pharmacy; papers from pharmacists and others on subjects of practical pharmaceutical interest would be much appreciated. The manuscript of papers intended for communication to the Cardiff meeting should reach us not later than June 1, 1930. It is hoped that all members of the Conference who will have papers ready by that time will avail themselves of the facilities for discussion afforded by the meetings of the Science Section and of the publicity for their communications afforded by the columns of the "Quarterly Journal of Pharmacy and Pharmacology." We earnestly appeal to all those who are engaged in research problems of a pharmaceutical nature to submit papers for communication to the Science Section of the Conference and thereby to maintain, and possibly enhance, the spirit of scientific research for the common good of all who practise pharmacy."

N.H.I. Dispensing Problems

CHEMISTS who have contracted for the supply of drugs and appliances for insured persons are more or less directly interested in various outstanding problems, the solution of which is therefore a matter of importance.

PAYMENT OF ACCOUNTS

First in order and most direct in its incidence is the question of remuneration for services rendered. Under existing arrangements all drugs and appliances supplied (except such as may be disallowed) are paid for in full, but the dispensing fees may be discounted if there is not enough money in the drug fund to pay all accounts without deduction. In 1927 there was a deficit of £123,643, and the chemists' accounts in England and Wales were subjected to a discount of 6 per cent. for the whole year. The discount, in this instance, was reckoned on the total accounts. In 1928 there was a surplus of £41,406, equal to an excess of 2 per cent. on the chemists' total accounts. This surplus was paid to the chemists, who thus recovered one-third of their loss on the previous year's accounts. This year (1929) it appears probable that there will again be a deficit, estimated at £76,000, so that discounting will again be the order of the day. It is thought that as much as 7½ per cent. may have to be deducted from the chemists' fees for the year, this being roughly equivalent to 3.75 per cent. discount on the total accounts for 1929. The point now to be decided is whether chemists shall continue service under the existing contracts, or endeavour to arrange fresh terms. In the event of acquiescence in continuance, the present contracts will continue automatically until the end of 1932.

DISALLOWANCES

In some areas chemists have been disallowed payment for articles prescribed in due form for insured persons and duly supplied. Where the articles so disallowed were appliances not covered by the terms of

the Second Schedule, or List of Approved Appliances, the chemists were at fault in having supplied them and no remedy was available. But other articles disallowed have been drugs, or border-line preparations, about which chemists were in doubt. Moreover, there have been cases of articles being allowed without question in one area, whilst subjected to disallowance in an adjoining area. A special Advisory Committee was set up by the Minister of Health last year for the purpose of considering such difficulties. It has been stated that the Committee has had occasion to consider whether certain articles came within the category of (a) never a drug, or (b) always a drug, or (c) sometimes a drug. But nothing has yet happened as the result of such consideration. The same applies to other matters which are understood to have been referred to the Advisory Committee for consideration, and it appears doubtful if the deliberations of the Committee are intended to be taken seriously. Some check on the supply of expensive proprietaries has been suggested, and a scheme to control the prescribing of such is being talked about; but the powers of the Ministry of Health in this direction may prove insufficient for real progress.

NATIONAL INSURANCE FORMULARY

According to the annual report of the Chief Medical Officer (Sir George Newman) of the Ministry of Health, investigations of prescribing in 1925 and 1926 established the fact that differences in the average cost of prescribing by practitioners in different counties and county boroughs, as compared with each other, were often attributable to differences in local formularies. After prolonged consideration, the matter was taken up by the Insurance Acts Committee of the British Medical Association in 1927, two members of the medical staff of the Ministry being authorised to take part in the deliberations on the subject. These two doctors are stated to have given special attention to this subject in the last four years, so that it is obvious the proposal for a national insurance formulary originated with the Ministry of Health. If the formulary which, unsatisfactory as it is, has taken so long to produce is adopted generally, there can be no doubt, in Sir George Newman's opinion, that a considerable saving in the cost of drugs will result. It seems important to have this evidence that a saving in cost was the main consideration underlying the production of the new Formulary.

Sponge Production in Cirenaica

ONE of the most important industries of the Italian colony of Libya (which comprises Tripolitania and Cirenaica) is that of sponge fishing. It is said, in fact, that the sponges found off the coast of Cirenaica are the most valuable of the Mediterranean production. The yield of the Tripolitanian waters is less important both in quantity and quality. Statistics recently published regarding the Cirenaican production of sponges during the 1928 season show a decrease both in weight and value compared with the previous year, as follows: 1927, 52,604 kilos, valued at 6,580,000 lire; 1928, 50,535 kilos, valued at 6,081,227 lire, or a decrease of 2,071 kilos with a value of 498,773 lire.

Notwithstanding this decrease in production, the export statistics indicate a quite considerable increase in the exports of sponges from Cirenaica during 1928 compared with 1927, the figures being as follows: 1927, 56,700 kilos, valued at 6,329,565 lire; 1928, 71,900 kilos, worth 7,764,754 lire, or an increase of 15,200 kilos, valued at 1,435,189 lire. This increase in exports is explained by the fact that a great portion of the previous year's production was exported in 1928. Details of the quantities exported to the various countries are not available, but shipments are stated to have been made to the following countries, given in order of importance as to amount and value: 1928—Austria, Denmark and Switzerland; 1927—Greece, Germany, Spain, Egypt, France, Tunis, Switzerland, Italy, Belgium and Austria.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed 'Corner for Students, The Chemist and Druggist,' 42 Cannon Street, London, E.C.4.'

Report on the October Analytical Exercise

The powder distributed to students on October 8 consisted of equal parts by weight of zinc hydroxycarbonate and hydrated calcium sulphate. The calculated composition of such a mixture is:—

Zn	...	...	...	...	28.7
Ca	...	...	...	...	11.6
CO ₂	...	...	...	...	8.8
SO ₄	...	...	...	...	27.9
OH	...	...	...	...	9.9
H ₂ O	...	...	...	...	13.1

100.0

The powder also contained in exceedingly small proportions, as impurities, manganese and the radicals of hydrochloric and phosphoric acids.

Samples of the powder were distributed to twenty-six students and twelve reports on its analysis were received for examination. The failures in the detection of the main constituents were:—(a) Metallic radicals: Zinc, 1; calcium, 4. (b) Acidic radicals: Carbonic, 3; sulphuric, 2. The impurities were only detected in isolated cases, manganese and phosphate each being reported in one instance and chloride in three. Six students failed to report the evolution of water when the powder was heated in a dry tube. Constituents erroneously reported present included magnesium, potassium, lithium, and sulphide.

Consisting of a mixture of only two salts and containing all its main constituents in comparatively large proportion, the exercise, designed for junior students, was simpler than those usually set. Nevertheless, the fact that three students failed to observe any precipitate in the barium group may serve as a reason for referring to some points concerning calcium sulphate. While this salt is only sparingly soluble in water, it dissolves moderately freely in hot dilute hydrochloric acid; but partial precipitation of the salt from such a solution may occur on cooling, and is very likely to occur on the addition of excess of ammonia, since this interferes with the solvent action of the acid. Hence the precipitation of calcium sulphate occasionally takes place when the iron-group reagents are added and the precipitate is liable, if insufficiently examined, to be reported as due to aluminium. Precipitation was not reported at this stage in the present analysis, but the three failures to obtain any precipitate in the barium group, and the very small precipitates reported in several other instances render it probable that the calcium had been carried down as sulphate, to a greater or less extent, along with the zinc sulphide. Students might profitably devote a few minutes to the practical study in the laboratory, of the properties of calcium sulphate.

There were two failures in the detection of the sulphuric acid radical, and several erroneous reports that this radical was present only in small proportion, as an impurity. Such results are usually arrived at through failure to wait for the precipitation of barium sulphate. When the sulphuric acid radical is present in a solution in large proportion, a precipitate forms immediately on adding barium nitrate or chloride, but in dilute solutions, instantaneous precipitation may not occur, and a cloudiness which increases may only begin to appear after an appreciable, and sometimes a quite considerable, interval. Waiting for at least ten minutes is not too long in the case of traces.

The impurities in the powder were in minute proportion only, and the failures to detect them in the quantity of the powder available were not surprising. In one or two instances their presence was established clearly enough, but the failure of one student who, in applying Crum's test for manganese, obtained a negative result, indicates the need for greater care in observing the effect of this test.

PRIZES

The first prize for the best analysis has been awarded to:—

R. W. FAIRBROTHER, c/o Boots, Ltd., Melton Mowbray.

The second prize has been awarded to:—

ARTHUR W. BULL, 53 Priory Road, West Bridgford, Notts.

First Prize.—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the publisher, naming the book or books they select.

MARKS AWARDED FOR ANALYSES

1. Correspondents who have not passed in Chemistry:—

R. W. Fairbrother (1st prize) ...	96	Roger ...	...	70
Arthur W. Bull (2nd prize) ...	...	Excuses ...	...	67
Tut ...	...	Nusquam ...	...	63
Agricola ...	...	Bert ...	...	47
	...	Glen ...	...	45
	88	Spirogyra ...	...	43

2. Correspondents who have passed in Chemistry or who omitted to indicate that they have not passed:—

Arduus ad	91	Alchemist	69
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TO CORRESPONDENTS

R. W. FAIRBROTHER.—It is desirable that the tests applied for all acidic radicals be mentioned, whether the results are positive or negative. Note that the colour of the mass resulting from the fusion of a precipitate containing manganese with potassium carbonate and chlorate is green.

TUT.—The testing for manganese in the zinc group precipitate should not have been omitted. Beware of assuming, without applying any tests, that a precipitate which plainly consists mostly of one constituent does not contain one or more others in small proportion.

AGRICOLA.—The test by means of ammonium molybdate was the only one by which any indication of the minute trace of phosphate was likely to be obtained, but as you applied this test it is apparent that you overlooked the slight yellow coloration which was imparted to the mixture when it was heated.

ROGER.—According to your report you tested for lithium in "a solution of the salt" and thought you detected its presence, but you give no indication of how the solution was prepared. It seems probable that the precipitate that you attributed to lithium was really due to calcium, which you failed to detect. You will notice that the sulphuric acid radical which you returned as an impurity was present to the extent of nearly twenty-eight per cent.

EXCUSES.—In testing for acidic radicals the application of silver nitrate should not have been omitted. Your treatment of this part of the analysis seems, on the whole, to have been rather superficial. Read the last sentence of the immediately preceding reply.

NUSQUAM.—We cannot offer any suggestion as to how you failed to detect the zinc which, as you will observe, was present in large proportion; but we suggest that you would profit by preparing a similar mixture for yourself and studying its behaviour with reagents until you obtain certain indications of the presence of its several constituents and proof of the absence of lithium.

BERT.—Do not conclude that sulphate is absent until the solution to which barium nitrate has been added has stood and remained unclouded for at least ten minutes.

GLEN.—The evolution of carbon dioxide when the powder was treated with hydrochloric acid should not have been overlooked as it was not inconspicuous. Read also the reply to "Tut."

SPIROGYRA.—Merely boiling a solution containing ammonium salts not a sufficient preparation for testing it for potassium by means of sodium bitartrate: evaporation to dryness and ignition of the residue are necessary. The precipitate you observed may have consisted of hydrogen ammonium tartrate.

ABDIUS AD.—Unless the sodium carbonate you used in preparing the solution to be tested for acidic radicals was found to be chloride-free, the reaction you observed with silver nitrate left the presence of a trace of chloride in the powder uncertain. Silver nitrate might have been added to a solution of the powder in dilute chloride-free nitric acid.

ALCHEMIST.—Read the first sentence in each case in the replies to R. W. Fairbrother and to "Glen."

Retail Prices in South Africa

THE action H. A. Tothill v. L. A. Gordon and seven other members of the executive committee of the Transvaal Chemists' and Druggists' Association (*C. & D.*, November 2, p. 523) was continued on Wednesday, October 9, before Mr. Justice Gey van Pittius in the Rand Division of the Transvaal Supreme Court, Johannesburg. Mr. Tothill is claiming an order restraining the defendants from continuing to do certain acts which he alleges are injuring his business, and from interfering with his right to carry on his business as he wills. The defendants are L. A. Gordon, M. H. Cooper, E. Solomon, H. Lipman, J. S. Ferguson, B. Cohen, W. H. Lyons and A. Spilkin. The case was reopened after an adjournment from the previous Friday, and Mr. Brink continued his re-examination of H. A. Tothill, the plaintiff. Questioned as to the prices charged to the public by chemists and druggists who abide by the rules of the Association compared with his own prices, Mr. Tothill stated that he was still "very satisfied" with the profits he made on his present prices. Reading from his price list, Mr. Tothill gave the following examples of the landed or local cost of various lines, the Association's retail price and his own retail price:—

Wholesale landed cost	Retail prices	
	Association	Tothill
s. d.	s. d.	s. d.
2 9	6 6	4 6
2 3	4 6	3 6
4 3	10 6	7 6
4 0	10 0	7 6
6 0	12 0	10 0
3 10	10 0	7 0
2 9	5 6	4 9

In the absence from court of Mr. S. S. Taylor, K.C., leading counsel for the defence, Mr. N. E. Rosenberg undertook the cross-examination of the plaintiff.

Mr. TOTBILL, on being questioned, agreed that the items on the list from which he had just read formed a very small percentage of his turnover.

Mr. ROSENBERG: As low as 1 per cent.?—No. I wouldn't say that; but very small.

What do you think is a fair price to the retailer?—About 33½ per cent. all round.

These are all proprietary articles, are they not?—Yes.

Mr. ROSENBERG pointed out that Mr. Tothill had himself made a profit of 90 per cent. on the landed cost of certain lines he had read out.

Mr. Tothill admitted this, but said that such a profit was not unconscionable.

Counsel questioned the plaintiff about occasions when he had reduced his price for prescriptions, and asked whether he did the same with prices of goods.

Mr. TOTBILL: If we have a very good customer we sometimes reduce the prices, as we do to you. Further questioned, the plaintiff said he would call anything above 100 per cent. unconscionable profit for a retailer.

Mr. ROSENBERG: What would you call a fair percentage for a wholesaler?—I should say about 25 per cent.

WHOLESALE SUPPLIER OF THE PLAINTIFF

Mr. A. PELLATT, of Johannesburg, a member of the firm of Pellatt & Co., wholesale dealers in chemists' rough goods, said he had been supplying Mr. Tothill with goods on a 5 per cent. commission basis for some time up to March last. He ceased supplying the plaintiff in response to a request by two members of the trade, which said that unpleasantness was likely to occur if he continued to deal with Mr. Tothill. He told the two men that he was quite willing to drop the whole business.

Cross-examined by Mr. Rosenberg, Mr. Pellatt said that he charged the plaintiff only 5 per cent. because he was a chemist, and as a favour.

You charged him 5 per cent. for using your name?—I couldn't put it like that.

I put it to you that you bought goods for Mr. Tothill from somebody else, and charged him the 5 per cent. commission for the use of your name?—I bought goods for Tothill, but I did not charge him for using my name.

You bought goods from Lennon & Co. for Tothill?—Yes, some, but I also bought from other firms.

And the two members of the trade who approached you to stop supplying Tothill did so because they objected to goods bought from Lennon's being supplied by you to Tothill?—I did not buy all my goods from Lennon's.

Miss A. GRAHAM testified that she took a doctor's prescription to a certain chemist, for which she was charged 4s. 6d. Thinking a "smaller chemist might charge less," she took the repeat prescription to Mr. Tothill, because his shop was opposite her tram terminus. At Tothill's she was charged 2s. for the same quantity of the same lotion.

The case for the plaintiff then closed.

THE DEFENCE: WHEN CUTTING BEGAN

Mr. L. A. GORDON, chairman of the Transvaal Chemists' and Druggists' Association, was the first witness called for the defence. He stated that the percentage of profit made by chemists, according to the Association's list, was about 30 per cent. all round. There were certain lines in great demand by the public. Cutting began when certain firms, not chemists, obtained the patent and proprietary articles usually stocked by chemists, and in many cases cut the prices to what the chemists themselves were paying for the goods. They used these articles as a lever to introduce their own lines to the public. Only about ten per cent. of a chemist's turnover was done in dispensing. Some of the articles the prices of which were mentioned by Mr. Tothill were, said Mr. Gordon, not kept by Mr. Tothill at all, because there was no demand; of certain other articles Tothill sold about four per year. Stocks needed for dispensing deteriorated, and frequently had to be thrown away. In recent years doctors' prescriptions tended to consist more and more of patent medicines. It was important, added the witness, that there should be some control of prices, particularly for dispensing. That was the professional side of the chemist's occupation. The Association's membership was about 200, but he could not say how many members represented "tied houses."

PLAINTIFF'S DISPENSING CHARGES "RIDICULOUSLY LOW"

Cross-examined by Mr. Brink on the charges for dispensing, Mr. Gordon said he thought Mr. Tothill's charges for dispensing were ridiculously low. He thought that by advertising the fact Mr. Tothill was getting so much dispensing to do that he probably made it pay.

Mr. BRINK: And because you don't get so much to do you charge public more?—No.

You don't get rich quick enough?—No, it is not that. Witness said he did not think 3s. 6d. was an exorbitant price for a prescription. The cost of materials did not enter into the question, but he did not think 3s. was exorbitant as a fee for the chemist's skill in mixing a prescription.

There was outside competition in certain lines, stated the witness, from grocers, hairdressers, and others. Some of these lines were taken off the Association's list to enable chemists to meet the outside competition. He did not think that competitive lines were taken off the list in the majority of cases. The tariff laid down was a minimum tariff, and if expensive drugs were prescribed an additional charge was generally made.

(To be continued.)

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense has to be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4., November 7

THE monetary situation on this side is ostensibly shaping for the better, and another reduction in the Bank rate before long would cause no surprise. The crucial position of unemployment, however, is still far from being solved, while the statement made in Parliament regarding the schemes sanctioned for helping in that direction have failed to encourage very sanguine hopes of any practical results being attained for a lengthy period. The outlook in home-ward shipping is now about the worst that could be imagined in the opinion of shipowners, and fundamental conditions in trade generally are still badly in need of being strengthened. American trade reports on the whole indicate a slackening of activity, which is hoped will be only temporary, and the Mining Lane commodity markets seem restless. Sugar is a waiting market, trade buying being spasmodic, but the next Cuban crop, which is expected to be much smaller, should prove a redeeming feature. Other colonial produce was mostly quiet with rubber again lower, and heavy increases in the home stocks. Mercury advanced again on the higher terms enforced by the Combine. Crude drugs present few changes. Matto Grosso Ipecacuanha remains very firm, meeting with a fair inquiry. A successful onslaught by "bears" on menthol and Japanese peppermint oil on the spot and in forward positions is a feature this week. Cod liver oil remains unchanged. Among the aromatic foods, Russian anise is firmer on the spot; canary remains very firm, and foreign is easier. Business in pharmaceutical chemicals remains much as previously reported, with a somewhat marked tendency for business to be done at slightly lower prices in some products. Citric and tartaric acids are dull and unsteady. Bromides are still subject to keen competition and dealers' prices have been reduced. Salicylic acid is very steady, and may harden. Barbitone is firmer and pure caffeine dearer. Among the industrial chemicals, business continues limited with no decided change in prices. Sodium acetate is steadier; oxalic acid continues firm. Caustic potash may be renewed specially in view of outside competition, and the same applies to red and white leads. Among the fixed oils, castor and cotton are cheaper; linseed tends firmer, while palm is weaker and easier. Rape and wood oils are also cheaper. Turpentine has fluctuated, but has improved from its lowest.

Higher	Firmer	Easier	Lower
Barbitone	Anise (Russ.)	Anise star oil	Bromides
Caffeine	Clove oil	Cotton oil	(Cotton oil dealers)
(pure cryst.)	Sodium	Fennel seed	Castor oil
Eumetine and salts	acetate	Geranium oil	Menthol
Lemon oil (c.i.f.)	Wormseed oil	Palm oils	Peppermint oil
Limoness oil		Rape oil	(Jr. dementhol)
Mercury		Shellac	Pilocarpine
		Wood oil	Pimento (c.i.f.)
			Podophyllin
			resin

Crude Drugs, etc.

ALMOND OIL.—English sweet (B.P.) is offered at 2s. 9d. per lb. and at 2s. 7d. in cases. Italian *peach kernel* 1s. 4d. is quoted, with slightly less for quantity.

ANTIMONY.—Chinese regulus on the spot has undergone virtually no change. There has been, however, slightly more interest and holders are asking £31 10s. to £31 15s. ex wharf. The tendency of forward terms for shipment as cabled from China has been rather better than the current figure being £30, but interest is not being stimulated, as it is considered that the margin between this and spot value is too narrow. English refined high-grade is £52 to £52 10s., but the terms quoted for other brands are more widely divergent, ranging from about £48 down to £35 per ton. Chinese regulus remains at about £26 10s., with white oxide offering at £35 to £35 10s.

ARCA.—Ceylon is quoted at from 38s. to 39s. on the spot.

BALSAMS.—Tolu is quoted at from 4s. to 4s. 2d. per lb. on the spot as to quality and holder and at from 4s. to 4s. 1d. c.i.f. Peru, guaranteed of direct import, is quoted at

7s. 3d. per lb. on the spot and at 7s. c.i.f. for direct shipment from San Salvador; *Copaiba* (B.P.) is 1s. 7d. on the spot.

CADMIUM.—Arrivals of late have been well maintained, either from Australia or Canada, and, so far as can be gathered, there is very little Australian actually offering, as practically the whole of this becoming available is already sold against old contracts. Terms for Canadian are firmly held at 2s. 10d. to 3s. 11d. per lb. according to quality.

CHAMOMILES remain firm, with Belgian offering from about 240s. to 260s. per cwt. on the spot for new crop. Old crop on the spot is offered at about 200s.

CINCHONA.—At the Amsterdam auction on October 30, 1170 packages (834 bales and 336 cases), weighing 45,566 kilos, and containing the equivalent of 1,338 kilos quinine sulphate were offered. Of this quantity, 449 bales and 230 cases, weighing 26,615 kilos, and containing the equivalent of 607 kilos quinine sulphate, sold at from 85s. to 76½c. per half-kilo. The next auction will be held on December 14.

CLOVES are firm, with sales of Zanzibar on the spot at 1s. 1d. to 1s. 1½d. per lb.; allspice has been sold at 1s. August-October shipment has been sold at 11d., and October-December at 10d. to 9½d. c.i.f., and December-February at 9½d. c.i.f.

The landings of Zanzibar in London during the week ending November 2 were nil and the deliveries 132, leaving a stock of 361, against 3,560 in 1928 and 9,672 bales in 1927. The landings of Zanzibar to date have been 6,038, against 13,566 in 1928, and the deliveries to date have been 8,021, against 17,071 in 1928. The landings of Madagascar to date have been 848, against 721 in 1928, and the deliveries to date 3,369, against 719 in 1928.

COCOA BUTTER.—Prime English is quoted at from 1s. 2½d. to 1s. 3d., and C. F. R. at 1s. 3d. in not less than one-ton lots. Van Houten's "A" is 1s. 3d.

COD-LIVER OIL.—There is still a fair inquiry at unchanged rates, agents quoting from about 107s. to 110s. per barrel c.i.f. for finest Norwegian new non-freezing steam-refined oil.

EGG OIL is quiet, with Russian offering at from 1½d. to 1s. 1d. per lb. on the spot for small, practically siftings to good sound Spanish and Portuguese is quoted at about 2s. 6d. per lb. c.i.f., and at 2s. 2½d. to 2s. 5d. on the spot.

GINGER.—West African is quiet, with sellers on the spot at 67s. per cwt. The importation of old-fashioned lined Cochinchina ginger ceased some months ago and it is no longer an article of commerce and the stocks have gradually gone into disuse. The fair washed rough Cochinchina which has taken its place is quoted at 75s.

GUM ACACIA has been very quiet lately, but with the cessation of Hamburg pressure to sell, market is steadier. The great restrictions on finance in Germany recently had compelled German dealers and consumers to clear out their stocks, but it now looks as if they will have to come to the London market to replenish their supplies to keep them going until new crop arrives. Meanwhile prices of cleaned went down to 108s. and up to 115s., but the market is now firm at 127s. 6d. for cleaned Kordofan and 120s. for natural on the spot. New crop is steadier at the lower prices; December-January is quoted at 74s. c.i.f. and January-February at 70s. c.i.f. for cleaned, with natural at 2s. less; bleached remains unchanged at from 150s. to 160s. Talha is 60s. on the spot, and to arrive a good business has been done in new crop at 36s. c.i.f. for January-February shipment and 34s. c.i.f. for February-March.

IPECACUANA is quite firm, with a fair inquiry. Matto Grosso being quoted at from 15s. to 16s. 3d. per lb., but only sparingly at the lower figure. Minas is 15s. 6d. per lb.

MAGNESIUM.—British makers are doing a good steady business, while favoured with a regular outlet and terms are thus easily maintained. These range from 3s. 3d. to 3s. 9d. for small ingots, sticks and bars, according to specification, while ribbon sells at 11s. to 14s., wire at 7s. 6d. to 12s. 6d., and powder at 4s. 6d. up to 7s. 6d.

MENTHOL, together with Japanese dementholised peppermint oil, is being depressed by the interests of speculators, business having been done in Kobayashi Suzuki's menthol on the spot at 15s. 6d. per lb. To arrive, October-December shipment is quoted at 13s. 3d. c.i.f., and January-March has been sold at 13s. 10½d., closing sellers at 13s. 3d. c.i.f.

MERCURY.—The trade demand has been fairly active and a business is being done by the agents of the combine, the terms quoted by them being higher at £21 15s. 6d. per bottle net c.i.f. U.K., payment on arrival for quantities in excess of 20 bottles. London stock ex the agency is selling at £22 2s. 6d. net ex wharf. The market shows a firm undertone and there is only a little offering in the open market, with prices for spot or near arrival ranging from about £22 17s. 6d. to £23 2s. 6d., loss 3 per cent. discount.

PIMENTO is quiet, with spot offering at 10d. per lb., and for October-November shipment 85s. to 90s. per cwt. c.i.f. has been paid, closing buyers at the higher figure.

RUBBER has again experienced a severe set-back, and is fully 3d. per lb. lower on the week. At the close of last week spot was done down to 94d. per lb., and this evening (Wednesday) spot was done with further sellers at 89d. per lb. This pronounced set-back, particularly at this time of the year, has caused a very uneasy feeling, inasmuch that there is still a very heavy "bull" account, which may have to be unloaded, through failure to meet differences. In the present state of the market, anything might happen, should buyers be unable to fulfil their commitments; therefore, it is more than likely that there will be a further set-back in price until conditions generally are more settled. The position, however, at the moment is a very serious one, in view of the severe losses that have been made all round; furthermore, the American position is still uncertain, and very little buying is being done in that quarter. Stocks continue to accumulate, and last week arrivals totalled 2,755 tons, whilst deliveries were 1,463 tons, showing a further increase of 1,273 tons. The London stock now stands at 48,092 tons, against 22,919 tons at the corresponding period last year. Liverpool stocks are also higher, at 14,272 tons. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet spot and November, 85d.; December, 84d.; January-March, 83d.; April-June, 82d. per lb.

SAFFRON.—No definite prices have yet been fixed for the new Spanish crop, but a reduction of probably 5s. per lb. may be expected.

SEEDS.—ANISE.—Spanish is quiet at 6fs. 6d. and Russian is now quoted at 5fs. CANARY.—Mazagan has been cleared on the spot at 23s. New crop for November-December shipment is quoted at 22s. 6d. c.i.f. No offers yet have been made at this figure. Tangier on spot is firm at 28s. and 27s. 6d. per cwt. c.i.f. for afloat parcels, Morocco f.a.q. (4 per cent.) is now offered at 28s. c.i.f., but resellers here will sell at 27s. c.i.f. for 25-ton lots. Business in Morocco f.a.q. on spot has been done at 27s. 6d., ex store. CUMIN.—Malta for shipment is 62s. 6d. c.i.f., and spot for good quality 70s. Morocco receipts at 58s. c.i.f., and spot is 65s. with business passing. FENUGREEK on spot is 19s. 6d., and for November-December shipment sellers are now offering at 16s. 9d. c.i.f. CORIANDER on spot is offered at 10s., and for shipment business has been done at 8s. 9d. c.i.f. FENNEL is easier on spot at 65s.; for December shipment the price remains at 62s. 6d. c.i.f. MUSTARD is unchanged, 27s. 6d. to 31s. on spot according to quality. CARAWAY.—Dutch on spot for old crop is 38s. 6d., and new crop 38s. 6d. ex store; for prompt shipment 38s. 6d. to 39s. c.i.f. is quoted. NIGER (Bombay 4 per cent.) for November shipment to London is 16s. c.i.f.; new crop for January-February is 15s. per cwt. c.i.f.

SHELLAC is dull and easier, usual standard TN orange quality offering at 175s. per cwt. on the spot; fine orange is 207s. 6d., to 256s., pure button 220s., and AC caky 220s. To arrive, sellers quote TN for November-December and December-January shipment at 165s. to 166s. c.i.f. For delivery, sales comprise TN for December at 170s. and March at 175s. to 176s. and May at 172s.

SQUILL is unchanged, with good white offering at 27s. 6d. per cwt., and ordinary at 22s. 6d. on the spot.

STRAMONIUM LEAVES.—Hungarian green are quoted at from 50s. to 55s. per cwt. c.i.f. as to seller.

VALERIAN.—Belgian is quoted at 65s. and German at 70s. per cwt. c.i.f. London.

VANILLA.—There have been no public auctions since June. Bourbon, 6 to 7½ in average length, is quoted at 8s. per lb. in quantity, and Madagascar at about the same figure. Mexican is 13s. 6d. to 14s. per lb.

WAX (VEGETABLE).—Japanese is quiet at 81s. 6d. per cwt. on the spot, and for November-January shipment 74s. 6d. c.i.f. is quoted.

Essential Oils

ESSENTIAL OILS have been very quiet during the past week. Citrus oils are practically unchanged in price. Bergamot is weak, Star anise is quiet, and although there has been a certain amount of inquiry, no business has been passing. Cassia is dull, Java citronella is slightly easier, but the position is rather unsettled.

ALMOND is quoted at 8s. 6d. per lb. for foreign and 40s. per lb. for English s.a.p. on the spot.

ANGELICA.—The new crop of root and seed has generally been poor, and the price of the oil is quoted higher on the spot at 95s. per lb. from front, and at 80s. per lb. from seed.

ANISE (STAR).—There has been a certain amount of inquiry during the past week, but no trade has been passing. The tendency is easier, and "Red Ship" in leads on the spot is quoted at 3s. 10½d. to 4s. per lb. For December shipment leads are quoted at 5s. per lb., tins at 2s. 10d. per lb. c.i.f. and drums at 2s. 9½d. per lb. c.i.f.

BAV is unchanged at from 7s. 9d. to 8s. per lb. on the spot for 50 per cent.

BERGAMOT is dull and the spot price quoted is 14s. 3d. per lb. and 13s. 9d. per lb. c.i.f. for new crop.

CANANGA.—Java is quoted for prompt or future shipment in one-cwt. drums at 10s. per lb. c.i.f. The spot price is about 10s. 6d. per lb. in drums, with smaller quantities offering at higher rates.

CARAWAY.—The yield of oil from the Dutch new crop has been lower than has been experienced for some years and higher prices may be expected. The price quoted for Dutch natural oil is 7s. 6d. per lb. spot, and for Dutch double-distilled 7s. 9d. per lb. spot, with one-cwt. lots at 6d. per lb. cheaper.

CASSIA is very dull, and for 80 to 85 per cent. 4s. 4d. per lb. spot is quoted, and to come forward at 3s. 9d. per lb. c.i.f.

CITRONELLA.—Java is quoted at from 3s. 1d. to 3s. 2d. per lb. on the spot and at 3s. 3d. per lb. c.i.f. for prompt shipment. Ceylon is a shade easier at 2s. 4d. per lb. spot, and is offered at 2s. 3d. per lb. c.i.f. for November-December shipment.

The market for Java citronella is unsettled, and reports of a "bearish" character are being circulated. It is reported from Java that there is an exporter who seems to be in a bearish position who is trying to affect the market downwards by offering at a prompt price for prompt shipment. It is not known if the Batavian market whether the said exporter will succeed in the long run, since there is not much oil available for the coming months owing to the drought which has curtailed, and which will curtail, the production very much.

CLOVE.—English drawn is quoted at 7s. 9d. per lb. on the spot. Madagascari is quoted at from 5s. 6d. to 5s. 9d. per lb. spot.

COPAIBA is quoted at 2s. 6d. per lb. spot and to arrive at 2s. 3d. per lb., with lower quotations for larger quantities for shipment.

ECALAPITUS is unchanged at 1s. 8½d. per lb. for 70 to 75 per cent., 1s. 10d. per lb. for 75 to 80 per cent., and 1s. 10½d. per lb. for 80 to 85 per cent.

GERANIUM.—Bourbon is easier at 17s. per lb. spot. For forward shipment 16s. 6d. per lb. c.i.f. is quoted. Algerian is quoted at 19s. 6d. per lb. spot and at the same figure to come forward.

GINGER.—Calicut ginger oil is quoted at 25s. per lb. spot.

GUAIACWOOD OIL is quoted at 5s. 6d. per lb. on the spot.

LAVENDER.—For 38 to 40 per cent. 13s. 6d. to 14s. 6d. per lb. is quoted on the spot.

LEMON.—New crop machine-made is quoted at 9s. 9d. per lb. c.i.f. Genuine hand-pressed is quoted at 11s. 6d. per lb. c.i.f. for 4 per cent. citral, and on the spot at from 12s. 6d. to 13s. 6d. per lb. according to seller.

LEMONGRASS is a shade firmer, and the spot price is quoted at from 2s. 8d. to 2s. 9d. per lb., and to come forward at 2s. 8d. per lb. c.i.f.

LIME.—Although the demand is quiet at present, supplies continue rather scarce, and quotations are unchanged from last week: good quality of West Indian distilled at 34s. 6d. to 35s. per lb., and for arrival 32s. per lb. c.i.f. is asked for small parcels. Hand-pressed is available in small quantities at 65s. per lb.

MANDARIN.—New crop to come forward is quoted at 21s. 6d. per lb. c.i.f. and on the spot at 22s. 6d. per lb.

NUTMEG is slightly firmer at 7s. per lb. spot, and to arrive at 8s. 10d. per lb. c.i.f.

ORANGE.—Sicilian bitter orange is quoted on the spot at from 14s. 3d. to 14s. 6d. per lb., and at about 14s. 6d. per lb. c.i.f. to come forward. New crop sweet orange is quoted at 14s. per lb. c.i.f.

PATCHOULI.—Singapore is offered for prompt delivery in tins in cases at 22s. 6d. per lb. c.i.f.

PEPPERMINT.—American peppermint is slightly easier at 13s. 9d. per lb. c.i.f. to arrive and 14s. per lb. spot in drums. H.G.H. is quoted at 21s. 6d. Japanese demutholised is quoted at 5s. 5d. per lb. spot for Kobayashi-Suzuki, and at 4s. 1½d. per lb. c.i.f. to come forward, January-March shipment.

PETITGRAIN.—Paraguay is quoted for prompt delivery in tins in cases at 7s. 6d. per lb.

ROSE.—Bois de Rose Cayenne is quoted at 6s. 9d. per lb. spot, and Brazilian at from 4s. 9d. to 5s. per lb. spot.

SASSAPARA.—Natural American tin oil is quoted at 5s. 6d. per lb. spot and 5s. 4½d. per lb. to arrive.

SPERMINT is quoted at 20s. per lb. on landed terms for prompt shipment. Spot oil is quoted at from 20s. to 20s. 6d. per lb. according to quantity.

STEVIA.—Java is offered for prompt delivery at 18s. per lb. c.i.f. in cases. The spot price is about 19s. 6d. per lb.

WORMSEED (CHENOPODIUM) is quoted at 15s. 6d. per lb. c.i.f., and on the spot at 14s. 9d. to 15s. per lb.

The following arrivals have taken place from the countries indicated during the period October 16 to October 22 (inclusive): Almond (Fr.) 5 cs.; anise (Ch.) 5 cs.; bergamot (It.) 141 cs.; cassia (Ch.) 20 cs.; cedarleaf (U.S.) 2 dm.; cinnamon (Cey.) 5 dm., (Ger.) 1 cs.; citronella (Jav.) 4 dm.,

(Cey.) 4 dm.; copaiba (U.S.) 5 cs.; dill (Neth.) 1 cs.; eucalyptus (Aust.) 12 dm., 20 cs.; geranium (Alger.) 1 dm.; grapefruit (U.S.) 1 cs.; lavender (Sp.) 1 dm.; lemon (It.) 2 cs., (Fr.) 6 cs.; lime (B.W.I.) 1 dm.; nutmeg (Neth.) 2 cs.; orange (B.W.I.) 3 cs., (U.S.) 17 dm., 64 cs.; origanum (Fr.) 1 dm.; peppermint (Jap.) 115 cs., (U.S.) 7 dm., 15 cs., (Ger.) 4 cs.; pimento (B.W.I.) 10 cs.; pine (Ger.) 4 dm., 2 cs.; rose (Fr.) 1 cs.; rosemary (Sp.) 2 dm.; sage (Sp.) 1 dm.; sandalwood (Br. Ind.) 100 cs.; sassafras (U.S.) 1 cs.; spearmint (U.S.) 2 cs.; undescrbed (Fr.) 8 cs., (Ger.) 1 cs., (U.S.) 3 cs.

Pharmaceutical Chemicals, etc.

This market continues steady so far as quoted prices are concerned, but there is a rather marked tendency for business to be done at slightly lower rates in some products. Citric and tartaric acids are dull and none too steady. Pure caffeine alkaloid is dearer and barbitone is firmer. Bromides are offered at lower prices by dealers.

ACETANILIDE continues to be quoted on spot at from 1s. 4½d. to 1s. 6d. per lb. for B.P. crystals and powder; market dull. ASPIRIN is unchanged on a quiet market: spot, 10s. 7d. to 11s. 1d. per lb. as to quantity; f.o.b., ten cwt., 10s. 6d.; five cwt., 10s. 8d. per lb.

ASPIRIN is about steady, with nothing much moving: quoted from 2s. 9d. to 2s. 11d. per lb. as to quantity.

ATROPINE.—The pure alkaloid is quoted at from 12s. to 12s. 6d. per oz., and the sulphate at from 8s. 8d. to 9s. 8d. per lb.

BARBITONE is firmer at from 7s. 6d. to 7s. 8d. per lb., and even more for small lots.

BENZALDEHYDE (.03) is of very little interest: dealers quote quantities at 1s. 10d. and smaller parcels up to 2s. per lb.

BENZOIC ACID (B.P.) is about steady but still quiet: quantities, ex works, 2s. 0½d. to 2s. 1d.; spot parcels, about 2s. 2d. per lb.

BROMIDES.—Competition is still acute, and dealers' prices show a slight reduction, potassium offering at 1s. 6d. for crystals and granular; ammonium is 1s. 10d. and sodium is 9d. per lb. Home makers' prices for cwt. lots are as follows, with about one penny less for ton cr more lots. Ammonium, 1s. 11d.; potassium, B.P. crystals, 1s. 6½d.; granular, 1s. 6½d.; sodium, B.P., 1s. 9½d. per lb.

CAFFEINE.—The pure alkaloid is higher, British makers now quoting 7s. 9d. per lb.

CALCIUM LACTATE shows no change, with business limited: quantities, from 1s. 2d. to smaller parcels, up to 1s. 3½d. per lb.

CHLORAL HYDRATE remains dull, with duty-paid crystals offered from 3s. 1d. to 3s. 3d. per lb. as to quantity.

CITRIC ACID (B.P. crystals).—The position here is not healthy: business on spot continues slow, with offers of foreign at about 2s. to 2s. 0½d. per lb., less 5 per cent.; forward, 1s. 11½d. per lb. c.i.f., less 5 per cent., up to next February.

CREAM OF TARTAR is another article that is not doing as well as it might: foreign on spot is quoted at about 10s. 6d. to 10s. 8d. per cwt., less 2½ per cent., but it is not easy to secure orders at these figures.

CHROSOTE (B.P.) continues to be quoted at about 1s. 8d. to 1s. 9d. per lb. spot, with business slow.

CREOSOTE CARBONATE is unchanged on a dull market: dealers quote 5s. 8d. to 6s. per lb. as to quantity.

GUAIACOL CARBONATE is seldom inquired for: quoted on spot by dealers from 4s. 1d. to 4s. 10d. per lb.

HAIOROTROPIS.—Crystals are offered at 6s. 6d. per lb. HEXAMINE continues at the controlled prices of 2s. 2d. to 2s. 4d. per lb. as to quantity, with isolated parcels at a slight discount.

HYDROQUINONE has been quiet but steady at about 3s. 8d. to 3s. 11d. per lb. as to quantity.

METHYL SALICYLATE (B.P.) continues steady, with bottom prices at 1s. 6d. to 1s. 8d. per lb., except for large parcels.

METHYL SULPHONAL is unchanged at agreed prices; business is not of much account: spot, 12s. 7d. to 13s. 10d. per lb. as to quantity.

PARAFORMALDEHYDE is steady, with quantities of 100 per cent. powder at 1s. 7d. in kegs, and smaller lots from 1s. 8d.

PARALDEHYDE is a keen market with not much business moving: quoted from 1s. 1d. to 1s. 4d. per lb. as to quantity and packing.

PHENACETIN.—The position here is as reported last week: controlled prices are unaltered at 3s. 2½d. to 3s. 7½d. per lb. as to quantity, with second-hands very competitive.

PHENAZONE is maintained at the controlled prices of 5s. 9d. to 6s. 1d. per lb. as to quantity, while occasional lots may be on the market at a slight discount.

PHENOLPHTHALEIN continues to be quoted on spot at about 5s. 11d. to 6s. 1½d. per lb.; business is sluggish.

PHILOCAFINE.—Nitrate is dearer, offering at about 11s. per oz.

PODOPHYLLIN RESIN.—Makers have reduced prices by 1s. per lb., as larger supplies of root are available.

POTASSIUM FERRIANTHONATE (B.P.) is steady but business is limited to minor sales; quantities in drums, 5½d.; druggists' parcels from 6d. per lb.

POTASSIUM SULPHOGUAIACOLATE remains dull, with dealers offering spot at about 3s. 6d. to 4s. per lb.

QUININE.—Secondhand supplies of sulphate appear to be exhausted, and it is difficult to buy below 1s. 8d. per oz. in bulk.

RESORCIN shows no change, with spot prices at 2s. 11d. to 3s. 2d. per lb. as to quantity; business moderate.

SACCHARIN is quoted at 43s. 6d. per lb. duty paid for 550 insoluble; soluble 500 is 2s. per lb. less.

SALICIN.—Makers are still restricted to supplying limited quantities only at 16s. per lb., and no contracts are undertaken.

SALICYLIC ACID (B.P.) is very steady and prices may harden a trifle: home makers quote 1s. 5d. to 1s. 7d. per lb.

SALOL is steady, although business is quiet: quoted from 3s. 7½d. to 3s. 10½d. per lb. as to quantity.

SODIUM DIETHYLBARBITURATE continues at the convention prices: f.o.b. Continent, five cwt. 9s. 7½d.; up to 10s. 3½d. per lb. for small parcels. Spot material is available at about 10s.

SULPHONAL is quiet: spot, crystals, 10s. 1d. to 11s. 2d. per lb. as to quantity; powdered, 1½d. per lb. more.

TANNIC ACID (B.P. leaves) remains dull, with quantities at 2s. 10d. and up to 3s. per lb.

TARTARIC ACID (B.P. crystals).—Business continues to be reported as limited and becoming rather difficult at full quoted rates: foreign, spot, 1s. 4d. to 1s. 4½d. per lb., less 5 per cent., as to quantity. Large quantities of foreign to come forward quoted at 1s. 4d., less 5 per cent. c.i.f.

THEOPHYLLINE.—Pure is quoted at from 7s. 3d. to 7s. 9d., and the sodium alkyolate at from 5s. 9d. to 7s. 3d.

THYMOL remains quiet, with synthetic fine white quoted at about 9s. 1d. to 9s. 3d. per lb.; ex ajowan seed, 11s. 3d. per lb.

VANILIN.—There is nothing to add to our report of last week. Business is moving in a limited volume, with competition between the genuine clove oil material and the guaiacol still evident. The former from home makers is offered at 14s. per lb. in cwt. lots, with cheaper prices for substantial contracts.

Industrial Chemicals, etc.

London, November 6.

The volume of business, passing continues rather limited. Despite this continued lack of really active markets the general tone is steady, there being no changes of importance.

ACETIC ACID is unchanged, with business continuing fair: 80 per cent. technical, £35 15s.; 80 per cent. pure, £27 per ton in barrels; glacial, pharmaceutical, 99 to 100 per cent., £66 in glass demijohns; glacial in barrels, £56 per ton ex store.

ACETONE is moving in fair quantity: B.G.S. in drums, £76 10s. to £75 per ton ex store.

AMMONIA (ANHYDROUS) is moving in usual small lots, with prices unchanged at 10d. to 1s. per lb. for 99.95 per cent. in cleaned cylinders, carriage paid; slightly less for big contracts.

AMMONIUM CHLORIDE is steady and in short supply: grey granular, £21 5s. to £21 10s. per ton in casks ex store; slightly less for contracts.

ARSENIC.—The trade demand for white Cornish continues to be confined to 10- to 20-ton lots, and the current quotation f.o.r. mines stands at fully £16 per ton. There is very little offering from abroad, and this includes Mexican high-grade at £17 to £17 10s. c.i.f. Liverpool.

BARITE CHLORIDE is steady with 98 to 100 per cent. prime white crystals on spot at £11 10s. per ton in casks ex store; forward, £9 15s. f.o.b. Continent, for quantities.

CAUSTIC POTASH is unchanged at Convention prices, but with outside competition there is a possibility of a revision of prices: 98 to 99 per cent. solid, spot, £21 15s. to £26 15s. per ton in drums ex store as to quantity; 30s. per ton less c.i.f. in all cases.

COBALT.—Demand for metal has been quieter, but the official price remains at 10s. per lb. There is a fair inquiry for oxide, with 6s. per lb. quoted for black and 8s. 10d. for grey.

COPPER SULPHATE.—The export trade has remained exceedingly quiet, but there has been no material change in current quotations, which are around £27 per ton f.o.b., less 5 per cent. for casks. There has been a renewed sharp fall in rough bar copper, which is not unlikely to have a bearing on its demand for the export trade, especially in view of the disappointing demand and the fact that there are still old accumulations on the Continent, where orders can be placed

at a few pounds per ton below the terms quoted by Associated British Makors.

FORMALDEHYDE is moving in fair quantities on a competitive market: quoted prices for 40 per cent. by volume, about £24 per ton in casks, ex store; cheaper for quantities.

ISOPROPYL ALCOHOL is moving fairly well, with prices for reliable make about steady at 11s. to 12s. per gallon in drums, carriage paid.

LEAD PRODUCTS.—Convention prices for red and white leads continue at the old rates: red lead, £57 10s. per ton in five to ten-cwt. lots, carriage paid, with rebates for larger quantities; white lead, dry, £37 to £42; ground in oil, £50 to £56, carriage paid in U.K. Owing to outside competition there is a possibility of the controlled prices being revised to a slightly lower level, but there is no official news to hand so far.

LITHOPONE is unchanged on a fairly good market: 30 per cent. Continental red seal, £19 10s. per ton in casks, ex store; slightly cheaper for contracts.

OXALIC ACID continues bright, with prices well maintained: quantities to arrive, £52 10s. to £53 per ton, ex wharf; spot parcels from 33s. 6d. per cwt., ex store.

POTASSIUM CARBONATE remains quiet but steady: 90 to 92 per cent., £25 10s. to £26; 85 to 90 per cent., £25 10s. per ton in casks, ex store; slightly lower for larger quantities.

POTASSIUM CHLORATE remains at low figures, with little interest shown: quantities to arrive, 2½d. to 2½d., ex wharf; spot, from 3d., ex store.

POTASSIUM PERMANGANATE is dull, with quantities in two-cwt. drums at 5d. per lb., ex store; smaller lots from 5½d.

POTASSIUM PRUSSATE continues steady and unchanged: quantities, £63 10s. to £65 10s.; single casks, 7d.; small parcels, 7½d. per lb., ex store.

SAL AMMONIAC is very steady, while supplies are limited: dog-tooth crystals, £32; medium, £29; fine white crystals £17 10s. per ton in casks, ex store; slightly less for contracts.

SALTCAKE is well maintained at 55s. per ton in bulk, delivered.

SODIUM ACETATE is steady, with dealers quoting at £21 5s. to £21 10s. per ton in casks, ex store.

SODIUM HYPOSULPHITE is meeting with a moderate business: dealers quote pea crystals in one-cwt. kegs, £15; commercial quality, £9 10s. per ton in casks, ex store. British makers' price for pea crystals to home consumers on contract, £15, carriage paid to buyer's station.

SODIUM PRUSSATE is unchanged on a fairly good market: quantities, 4½d. to 5d.; smaller lots from 5½d. to 5½d. per lb. in casks, ex store.

SULPHUR is in moderately active demand, with American cargo at £5 12s. 6d. to £5 17s. 6d., while Sicilian flowers are £12 7s. 6d., refined ground £11, and roll £9 15s. c.i.f.

COAL-TAR PRODUCTS, ETC.—A moderate amount of business continues, with conditions generally steady. Carbolic acid crystals continue the bright feature of the market, while cresote oil is again slack. ANILINE oil is unchanged at about 8½d. per lb., packages extra, carriage paid. ANILINE

SALT continues steady at about 8½d. per lb., packages extra, carriage paid. BETANAPHTHOL is unchanged from 9½d. to 10d. per lb., carriage paid. CARBOLIC ACID CRYSTALS.—Generally speaking, there is no change in the situation, prices being 7½d. to 8½d. per lb. according to quantity and packing, for ordinary ice crystals. Detached crystals 1½d. per lb. extra.

CRESYLIC ACID.—The firm tone noted recently continues, with prices generally on the better side. Inquiry is good. Pale is quoted at 2s. 3d. to 2s. 4d., and refined at 2s. 8d. to 2s. 11d. per gallon, according to quantity. CRESOTE OIL is again slack, with prices unchanged, ex works, 3d. per gallon in bulk quantities. NAPHTHALENE is unchanged: flakes and balls, £15 15s. to £16 per ton in cases, ex wharf. METHYL ALCOHOL continues unchanged, with the demand small: quoted at about £44 per ton, and less for quantities, in drums, ex work. PYRIDINE continues a dull market: f.o.b., 4s. to 4s. 6d. per gallon. TOLUOL continues unchanged: commercial 90's, 1s. 10d.; pure, 2s. 2d. to 2s. 3d. per gallon ex works, London. XYLOL is slack; prices continue unchanged: commercial, about 1s. 10d.; pure, about 2s. per gallon at works. PITCH continues at 4½s. 6d. per ton f.o.b. East Coast.

Fixed Oils, etc.

CASTOR OIL is easier and cotton oils show a decline. Palm oils are weak at the close. Lined oil tends firmer and American turpentine is brighter. Other items are about unchanged. ACID OILS are quiet but values practically unaltered: coconut and/or palm kernel, 32s. 6d.; ground nut, 31s. 6d.; soya, 27s. 6d. spot. CASTOR is slow of sale and prices are much easier: pharmaceutical, 45s. 6d.; first pressing, 43s. 6d.; second pressings, 41s. 6d. per cwt. in barrel on the spot in not less than one-ton lots. COCONUT.—Business has been quiet: deodorised, spot, 41s.; Ceylon, 33s. 6d.

c.i.f.; Cochin, 42s. 6d. c.i.f. COTTON has been dull and prices for all grades are much easier: deodorised, 40s. 6d.; common edible, 38s. 6d.; soapmaking, 36s. 6d.; crude, 33s. 6d. spot. GROUND NUT remains quiet: deodorised, spot, 40s. 6d.; crude Oriental, 37s. 6d. c.i.f. PALM KERNEL.—Business has been slow: deodorised, 42s.; crude, 36s. spot. PALM has been slow all the week and prices are easier, with a weak tone at the close: Lagos, 32s. 9d.; soft, 30s. 9d.; medium, 32s. 6d.; hard, 33s. 9d.; bleached, 35s. 6d. spot.

RAPE is slightly easier on a dull market: refined, 47s.; crude, 44s. 9d. spot. SOYA is now firm and tends to advance: deodorised, 41s. 6d.; crude, 38s. 6d. spot. LINSEED (raw, naked) has been mostly quiet, but there is a firm tone at the close, with the forward positions showing a recovery on the week: on spot, 44s. 6d.; November, 44s. 6d.; December, 41s. 3d.; January-April, 40s. 3d. Boiled oil, on spot, 43s. 3d.

TURPENTINE.—The market was lately affected by the Wall Street crisis, like other commodities, and prices depreciated, but there has been a rally from the worst. The London spot price closes quiet at 42s. 8d., December 45s., and January about 44s. per cwt. Last week's deliveries were 1,604 barrels, making a total since January 1 of 64,283 barrels, which compares with 88,842 barrels the same period last year.

Stocks were returned at 26,200 barrels, against 34,222 barrels a year ago. Including another steamer afloat, with 7,505 barrels, the London visible supply made up at 33,505 barrels, against 38,572 barrels for the same date last year.

RESIN.—After being easier the market has again become but business restricted. C.i.f. terms for shipment from America are as follows: B to M 19s., N 19s. 1½d., W/G 19s. 4½d., and W/W 20s. French resin has fluctuated in sympathy with American and the best grade is quoted at 18s. 10½d. Wood.

—Hankow in barrels on spot is easier on a dull market at 74s. per cwt.

LUBRICATING, MINERAL AND BURNING OILS, ETC.—After the recent changes notified in this market the position is generally steady and prices are all maintained. BENZOL is slightly cheaper: standard motor 90's, 1s. 6d. per gallon ex works in tank wagons in the provinces and 1s. 8d. ex London works.

FUEL OIL continues quiet: 350 gravity, £3 5s.; 380 gravity, £2 17s. 6d. per ton ex tank; cheaper forward. PARAFFIN OILS are unchanged and steady: American standard white, 1s.; water-white, 1s. 1d. per gallon, barrels, ex wharf. PARAFFIN WAX AND SCALE.—Wax continues steady from 2d. to 5d. per lb., according to melting point, in bags; scale is firm for shipment at about 11s. 2s. 6d. per ton c.i.f. U.K. port.

WHITE OILS are again dearer: special No. 1, 2s. 7s. 6d. 1, £24 10s. No. 2, half-whale, £22 17s. 6d.; No. 4, half-whale, £20 per ton in drums and barrels free, ex wharf. SOLVENT NAPHTHAS are steady, with the demand fair: 90 to 160, 1s. 2d. to 1s. 3d.; heavy 90 to 190, 1s. per gallon naked at works. PETROLEUM JELLIES continue steady, with prices slightly dearer: white to snow-white, £36 10s. to £47 10s.; amber and yellow, £18 to £22; dark sulf green, £11 17s. 6d. per ton, barrels free, ex wharf. LUBRICATING OILS are unchanged and quiet. Spot: pale, 9s. 15s. to £21 5s.; reds £11 to £21 5s.; dark cylinders, £13 10s. to £33 10s.; filtered cylinders, £23 to £41 per ton as to quantity, less 2½ per cent. SOLUBLE OILS AND CUTTING COMPOUNDS are unchanged from £20 to £23 per ton net. No. 1 RUSSIAN OIL on spot is offered at £14 10s. per ton, less 2½ per cent., barrels free, ex wharf.

A Warning to Senna Buyers

A VERY large consignment of 1,050 bales of Tinnelly senna leaves arrived in this country recently and was offered last week by tender under salvage sale conditions. These goods were shipped from Tuticorin per "Kasama" and originally destined for the United States, but owing to a serious outbreak of fire on board the steamer, the cargo got badly damaged and was transhipped to Liverpool. The examination of this consignment shows a considerable portion to be smoke and water damaged and is unfit for sale for human medicinal use in its present condition. Buyers should not be misled by colour and cleanness of the leaves when purchasing future supplies of Tinnelly senna as part of the damaged consignment has retained its characteristic appearance, but has a strong "india rubber like" odour which suggests that this commodity formed part of the cargo. It is possible that this part of the consignment may find its way on to the market, and buyers are advised to examine closely and smell all samples submitted to them; it would also be advisable to obtain a guarantee from suppliers that the goods are of direct importation and in sound condition. Buyers may possibly come to the conclusion that with such a large parcel floating about prices may weaken, but it must be remembered that the United States is bound to require the shipment duplicated, and there is some doubt about India being able to meet the demand for such a large quantity of senna at this period. It would probably not be until next crop (May-July) that such an order could be executed.

"Individuality" could persuade the qualified managers and assistants to attend the meetings of the branches, as they are entitled to do, they would have an opportunity of getting to know one another personally, and then it should not be a difficult matter, when the ice is broken, for two or three energetic men to get together and form a body locally of the kind that "Individuality" is desirous of promoting; the local ones could afterwards be linked up by a central organisation.—Faithfully yours,

PROMOTION (4/11).

The Chain-Store Menace

SIR,—“Centrality,” in his letter on “The Chain-Store Menace” (*C. & D.*, October 26, p. 517) says that in the United States 17,000 independent chemists have signed the contract to be known as the McKesson Service Stores in an attempt to fight the growing competition of the chain stores. Can he tell us what this contract involves—whether it implies any obligation to purchase from a given wholesaler, to give periodical window shows to some particular goods, or to take a stated quantity of goods during a certain period of time from special manufacturers? If it includes any of these things, I think that it is very doubtful if the scheme would appeal to the average British mentality. There is no doubt that some form of amalgamation among independent chemists would be a good thing in view of the way in which chain stores are coming under the influence of combines in this country; in these days, when such a large section of the public, more influenced by specious advertisement and cut prices than by qualification of the individual and quality of the goods, the independent chemist cannot hope to compete with these shops on anything like equal terms to the satisfaction of the masses. In this respect amalgamation, coupled with the backing of selected wholesale houses and manufacturers should enable him to reduce his handicap considerably, provided the scheme was worked out carefully and with due consideration of the requirements of the British trade and characteristics.—Yours truly,

COMBINARE (5/11).

“Wake Up, Pharmacy!”

SIR,—It is obvious that “Ethicus” is still handling the wrong end of the stick regarding “Wake Up! Pharmacy.” I think he will agree with me that pharmacy may be separated into two distinct branches, the scientific and the commercial. The affairs of the first of these are in the hands of the Pharmaceutical Society, who, since they hold the Charter, also control the legal issues between the State and pharmacy. Maybe they have not done all that we should have liked them to, but “Ethicus” must surely agree when I say that it is thanks to the co-operative efforts of its founders and their successors that we pharmacists owe our protection and enjoy our many privileges. The Society to-day is still carrying on the good work; last year we saw their efforts bear fruit, inasmuch as they have at last obtained proper representation on the Commission for the new Pharmacopoeia. Furthermore, their improvements in the educational system and the stiffening up of the examination are a definite move in the right direction, and will go a long way towards safeguarding pharmacy from a professional standpoint. Am I satisfied with their efforts? Yes! Now let us turn to the other branch, the commercial side. Some years ago it was realised by a number of far-sighted pharmacists that the Society could not devote its attention to both branches, so they banded themselves together and the R.P.U. and P.A.T.A. were brought into being. “Ethicus” again asks whether I am satisfied with the results of their combination. Once again my answer is in the affirmative. To take the work done by the P.A.T.A. as an instance, I think we can thank them for having saved us from the chaos of price cutting that exists to-day in the United States. I personally do not think that there is any doubt in the minds of the majority of pharmacists as to the value of the work done by these bodies. Thanks to them both the scientific and commercial interests of the retail pharmacists are looked after and protected, but there is a very definite need for an organisation that will look after the commercial interests of thousands of qualified pharmacists acting as managers and assistants. It is such a

body that the “Wake Up! Pharmacy” enthusiasts would like to see brought into being. “Ethicus” asks what would I do with such an organisation, whether I would head a deputation to make demands of the Government, force the hand of the General Medical Council and bid the country of price cutters. Certainly not, we are not attempting to form another Pharmaceutical Society or encroach upon the work of the R.P.U. and P.A.T.A. What we would do would be to support either of these bodies in their efforts to protect the individual pharmacist from those who are attempting to crush him and to feather their own nests by taking advantage of the privileges invested in him by virtue of his qualification. I can quite believe that “Ethicus” is tired of reading such appeals as ours without seeing any progress made. But as long as the ranks of pharmacists are afflicted with his pessimism, so long will no progress be possible. Pessimism has not and will not get us anything, but unity and faith in ourselves will get us a great deal; so “Wake Up! Pharmacy.”

I am, etc.,

INDIVIDUALITY (30/10).

Subscribers' Symposium

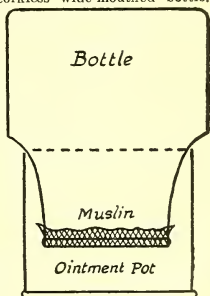
For interchange of opinion among “C. & D.” readers and brief notes on business and practical topics

Pharmacists' Social Handicap

The remarks of Dr. Charles Symes on the social environment of the pharmacist, reprinted from the *C. & D.* of “Fifty Years Ago” (*C. & D.*, October 26, p. 518), apply with equal force to-day in spite of a general levelling up of all grades of society. Apart from the fact that he is a shopkeeper, one of the greatest drawbacks to any pretence at social status is his inability to shake off the dust of his shop at reasonable hours, and to mix with his fellow-men in their leisure time. The pharmacist is working at his hardest to 8.30, or so, and later on Saturday, while as a small proprietor he frequently has no half-day or Sunday completely free, and so he becomes a negligible factor in the social life of any community.—Abandonata (4/11).

Novel Label Sticker

A practical label-sticker can be made from an old ointment pot and an empty corkless wide-mouthed bottle. The device costs nothing, as the necessary parts can be found in every pharmacy. The bottle should be about half full of mucilage and tied over the neck with muslin. The best thickness of mucilage to use can be found by experiment, but with ordinary undressed muslin the B.P. mucilage of acacia is successful. The ointment pot is used as a stand for the inverted bottle, and it will be found that the gum does not leak through except when in use.—J. D. M. (14/8).



Health Insurance Customers

“Looking Ahead” (*C. & D.*, October 26, p. 516) seems to have brought some of his troubles on himself by a want of firmness or tact in his dealing with insured customers. In the case of the customer who comes without a bottle or the deposit, or who objects to paying, I turn the script over and ask him to read the regulations, and point out that these are issued by the Ministry of Health, and the chemist is obliged to observe them. As the public is very subservient to officialdom, this produces the required effect, whereas consideration for the chemist would never do so. With regard to scripts after hours, the pharmacist is not compelled to dispense them if not marked “Urgent,” and, here again, one can point to the rules. Of course, one runs the risk that they will go away and write “Urgent” on it themselves.—Tact (5/11).

Legal Queries

H. G. (2/10).—The inclusion of the word "cough" in the title renders the article liable to medicine-stamp duty.

J. W. (31/810) asks whether a licence is required to sell tobacco snuff retail. [A tobacco dealer's licence must be obtained, the cost of which is 5s. 3d., annually.]

R. A. (31/810) occupies business premises as tenant of the local council. Last March his lease was renewed and the rent was increased from £46 to £100 a year. Was this increase legal? [The Restriction Acts do not apply to premises let for business purposes only and the increase was, therefore, legally justified.]

H. J. (17/10).—A licensed vendor, i.e., the holder of a patent medicine licence, is entitled to break open a duly stamped box or other package of pills, powders, tablets or other solid medicines apportioned into doses, and sell the contents in small quantities unstamped, provided they are not re-packed but sold loose or in a twist of paper.

W. W. (30/10).—The addition of salicylic acid as a preservative to cider is not permissible. Under the Public Health (Preservatives, etc., in Food) Amendment Regulations, 1926, the only preservative which is permitted in the case of cider is sulphur dioxide in the proportion of 200 parts in one million parts, estimated by weight.

J. F. K. (21/10).—In the Irish Free State salt of lemon comes within Part II of the Poisons Schedule, and, consequently, may only be sold by pharmaceutical chemists, chemists and druggists and registered druggists. It must be delivered in bottles or other containers "rendered distinguishable by touch from ordinary bottles or containers," and be labelled with the name of the article, the words "Poisonous" and "Not to be Taken," and the name and address of the seller.

H. H. (29/810) is about to engage a woman twice a week to clean his shop floor, paying her 1s. 6d. each time. She draws a pension of £1 18s. 11d. a week in respect of herself and her daughter. What is the position with regard to National Insurance? [If the woman is not more than sixty-five years of age she is liable to be insured under the Health and Pensions Insurance scheme. She may be able to obtain exemption upon the ground that she is in receipt of a pension of not less than £25 a year; but, even in that event, "H. H." will have to pay a contribution of 7d. a week in respect of her. If she is over sixty-five he will have to pay the same amount for Pensions Insurance.]

L. P. (17/10).—Iodine is not a scheduled poison and its sale is consequently not restricted to chemists. On the other hand, spirituous preparations used as medicaments may only be sold without a licence by chemists. The law lays down that a spirit mixture, for instance tincture of iodine, is to be regarded as spirits and as such cannot be lawfully sold without a licence to sell spirits. Consequently, any person other than a chemist who wishes to sell spirituous preparations, such as tincture of iodine, is required to hold an Excise licence to sell spirits by retail in addition to a justice's licence. This question was dealt with editorially in our issue of January 19, 1929, p. 69. The restriction to chemists of the sale of spirituous medicines dates back to 1742.

D. J. P. (7/10).—The tenants of certain property who pay a rent which includes rates have been given notice by the mortgagee to pay the rent direct to him.—Is the mortgagee legally entitled to do this, and, if so, is the mortgagee liable to pay the rates should the tenants be called upon to do so? [If the mortgage was created since July 2, 1920, and the mortgagor has made default in payment of principal or interest the mortgagee was entitled to enter into possession of the property and require the tenants to pay the rent to him. If the mortgage was made before that date the mortgagee could only act as he has done with the sanction of the court. The tenants as occupants are liable to pay the rates to the local authority should the mortgagee fail to do so, but he would, in our opinion, be liable to indemnify the tenants.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

G. F. M. (25/9).—(1) MANGE IN DOGS.—There are two forms of mange, sarcoptic and follicular, and what may cure one is practically useless in the other. Reference to "Veterinary Counter Practice" will be found helpful. The following formulas have proved successful in most of the cases where they have been applied:—

I			II		
Spt. picis.	...	aa.	Iodi	...	3j.
Sulph. sub.	...	3iss.	Pot. iod.	...	3ij.
Ol. cetacei	...	Öj.	Ol. picis	...	3ij.
Wash the animal with hard soap and water and apply the ointment all over every ten days, and at the itching parts daily.			Ol. vel. adip.	...	3ij.

Apply to parts as required.

The following is an old and well-tested cure:—

Ung. hydrarg.	...	aa.	3ij.
Pot. bicarb.	...	aa.	3ij.
Ol. lini.	...	aa.	3ij.
Ol. cetacei	...	aa.	3ij.
Sulph. viv.	...	...	3iv.
Spt. picis	...	...	3ij.

Apply to parts affected every two or three days.

For follicular mange only, the following may be used, but with great caution:—

Sulphur	...	3 parts
Carbon tetrachloride	...	27 parts
Carbon disulphide	...	60 parts

Rub on daily (in the open air) with a piece of wool.

(2) CLEANING POWDER FOR DOGS' COATS.—Any of the following formulas are recommended:—

I		II	
Alum exsic.	...	Orris root	...
Magnes. carb.	...	Rice flour	...
A little to be well rubbed into the coat and brushed off later.		Coumarin	...
	

L. J. (24/9).—MEASUREMENT OF ULTRA-VIOLET.—At seaside resorts the ultra-violet rays are measured by the fading of Webster's standard solution of acetone and methylene blue. The solution, inside a silica tube which is fastened to a high pole, is exposed to the sky for twenty-four hours. At the end of that period the colour of the tube—in other words the degree to which the solution has faded—is compared with the colours of a set of eight standard tubes filled with unbleachable solution, and graduated into degrees or units of "fading." The difference between the readings before and after exposure gives a measurement of the biologically active ultra-violet rays. Exposed to a constant source of ultra-violet rays the fading is proportional to the time of exposure. The degrees of the colour scale are equal and biologically standardised. One unit of fading is equal to two or four times the erythema dose, the sensitivity of the skin varying in individuals.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," November 15, 1879
Thymol and Menthol

My interest in the subject of this paper has arisen from the following circumstance:—Menthol was required, and an order was sent to two of the leading manufacturers of pharmaceutical chemicals in London for some. One supplied a crystalline substance, the other a liquid; which was correct? To an abrupt question, "What is menthol?" I received the following reply:—"Menthol is the crystalline principle of oil of peppermint, as thymol is from oil of thyme"; and such is a natural reply, though not quite accurate. Thymol is of interest to this Association from the fact that a sample was first exhibited in this country at a meeting of the Pharmaceutical Conference in Liverpool, 1870, by our honorary member Mr. H. Sugden Evans. [From a paper read at a meeting of the Liverpool Chemists' Association by Mr. A. H. Mason.]



[Commenced C. & D., July 5, 1924]

Salicylic Acid, Commerce.—The following figures (which also include salicylates) show the imports into, exports and re-exports from the United Kingdom from 1923 to 1927 inclusive:—

From	Imports				
	1923	1924	1925	1926	1927
	Lb.	Lb.	Lb.	Lb.	Lb.
Germany	47,789	10,598	9,857	14,597	37,887
France	48,410	68,107	62,788	34,170	43,304
United States ..	110	3,464	2,902	2,012	2,873
Other foreign countries	21,075	4,711	2,394	2,700	9,971
Total	117,384	86,880	77,941	53,479	94,035
Value£	8,997	8,556	6,756	4,462	5,994

To	Exports				
	1923	1924	1925	1926	1927
	Lb.	Lb.	Lb.	Lb.	Lb.
Total to foreign countries ..	78,245	62,966	151,430	169,314	193,492
Total to British countries ..	93,171	121,669	155,907	190,017	251,974
Total	171,416	184,635	307,337	359,331	445,466
Value£	22,921	23,376	28,951	30,558	42,230

	Re-Exports				
	1923	1924	1925	1926	1927
	Lb.	Lb.	Lb.	Lb.	Lb.
Total to foreign countries ..	2,835	7,200	4,038	7,389	370
Total to British countries ..	7,481	10,539	13,141	4,934	3,937
Total	10,316	17,739	17,179	12,323	4,307
Value£	1,329	2,751	2,539	1,338	586

Germany.—The exports during the past two years were as follows:—Salicylic acid and salicylates: 1927, 25,600 kilos.; 1928, 38,200 kilos.*

* Including reparation deliveries.

France.—The exports are as follows:—

	Exports		
	1927	1928	
Salicylic acid	kg.	75,300	38,500
Ethyl and methyl salicylate	kg.	48,400	42,000
Phenyl salicylate (Salol)	kg.	12,700	10,800
Other salicylates	kg.	46,900	41,700

Italy.—Exports and imports during the past three years were as follows:—

	Exports			
	1926	1927	1928	
Salicylic acid	kg.	—	—	100
	Imports			
	1926	1927	1928	
Salicylic acid	kg.	46,000	53,800	73,600

Japan.—The imports of salicylic acid during the past three years have been as follows:—

	1926	1927	1928
Salicylic acid	km=14 lb.	356,901	195,407
			404,641

Salicylic Aldehyde occurs naturally in essential oil of meadowsweet, *Spiraea ulmaria*, of which it is the

characteristic odour bearer. It is also known as *ortho*-oxybenzoic aldehyde. It is prepared artificially as the starting point in the production of coumarin, as well as for direct use in perfumery. Several methods of preparing salicylic aldehyde are advocated, one method being by means of the reduction of salicylic acid (German patent No. 196239). The salicylic acid is exactly neutralised by caustic soda, and the calculated equimolecular quantity of *para*-toluidine is added. This is utilised to combine with the aldehyde as fast as it is produced by the reaction, and thus "protect it." Common salt and a little boric acid are then added, and lastly two per cent. sodium amalgam. The mixture is kept acid by the continuous addition of small amounts of boric acid. The compound of the amine and the aldehyde is steam distilled, the salicylic aldehyde being liberated and carried over, the *para*-toluidine remaining in the residue. Another method starts from *ortho*-cresol, which is chlorinated, yielding $C_6H_3(CH_2Cl)_2OH$. This chlorine compound is hydrolysed, chlorine being replaced by oxygen, forming salicylic aldehyde. Pure salicylic aldehyde, prepared by conversion of the crude substance into its bisulphite, and subsequent rectification, has the following characters:—Specific gravity, 1.170; boiling point, 196° to 197°; solidifying point, -20°. On oxidation it yields salicylic acid.

Saline Solutions.—For medicinal use saline solutions are usually either isotonic or hypertonic. Isotonic or "normal" saline (to be distinguished from the "normal" solutions used in volumetric analysis) contains 0.91 per cent. of sodium chloride, and exerts the same osmotic pressure as blood serum. It is used for intravenous injections in cases of collapse, etc., usually in combination with glucose or gum acacia. Hypertonic saline, exerting an osmotic pressure greater than blood serum, is used to draw fluids from the body cells with which it comes into contact, and is therefore employed to promote the flow of lymph in the treatment of septic wounds. Sodium citrate, half to one per cent., is added to prevent coagulation of the lymph. Normal saline is also known as physiological salt solution, and is represented in several foreign pharmacopoeias in strength varying slightly from the isotonic solution in use in this country.

Salipyrin ($C_8H_7N_3O.C_2H_5.OH.CO.OH$), or antipyrine salicylate, is not a true salt of salicylic acid, but is a weak additive compound of phenazone and salicylic acid. The drug is prepared by warming equimolecular proportions of salicylic acid and phenazone on a water bath until the mixture liquefies; it solidifies on cooling, and the product is purified by recrystallisation. It is a white, odourless crystalline powder having a taste at first bitter, then sweet, and melting at 92°. Solubility in cold water 1 in 240, in boiling water 1 in 5; readily soluble in most organic solvents. Salipyrin is incompatible with both acids and alkalis, giving respectively salicylic acid and phenazone. It should contain the theoretical percentages of its constituents, viz., 42.3 per cent. salicylic acid and 57.7 per cent. of phenazone. Impurities liable to occur are acetanilide and free salicylic acid. Freedom from the former can be shown by applying the carbylamine test—warmed with chloroform and alcoholic potash, no smell of phenyl-isocyanide should be evolved. The aqueous solution should be neutral to litmus, showing absence of free salicylic acid.

Salix.—This genus of the natural order *Salicaceae* contains a large number of species which readily form hybrids and varieties, many of which are largely used in basket making, and some of which contain the bitter glucoside called salicin. The species of *Salix* in cultivation are popularly called willows, osiers and sallows. The name of willow is generally given to the species that form trees; and those that form long slender shoots with few side branches and usually narrow leaves are called osiers; and those which have a branching, shrubby growth, with broader, more or less oval and often rough leaves are called sallows. The only British species of which the bark is used in pharmacy in this country is *S. alba*, Linn., the wood of which is used for cricket bats, wooden legs and chip boxes, the last-named being chiefly made in Germany. *Salix alba*, Linn., is a common species growing by river banks and

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in marshy meadows in this country, and is easily recognised by the silvery appearance of the leaves, which is due to their being coated with appressed hairs. The structure of the bark as supplied in commerce frequently shows that it is not derived from *S. alba* only, but partly also from other kinds of willows, which are used for peeled rods for basket making. The dried bark commonly occurs in channelled pieces, ten or more c.m. long and one to two c.m. wide, usually of a greenish or greyish-brown colour. The inner surface has a pale reddish tint and although apparently smooth it is seen under a lens to be finely striated longitudinally. In transverse section the cork is seen to consist of a few rows of cells, the outer walls of which are strongly thickened and bulge outwards. The bark contains no line of sclerenchymatous cells between the cortex and the bast which distinguishes it from *Diamantella virginiana*, Linn., in which such a line is present. The principal constituents of willow bark are tannin and a little salicin. At the end of the eighteenth century willow bark was used for ague and rheumatism, but it has for a long time been replaced by salicin. Willows for manufacturing salicin are largely obtained from Belgium in the form of extract. The only other species of willow that is met with in pharmacy is *Salix discolor*, Muhl., known as black or pussy willow bark, which is also obtained from *Salix nigra*, Marsh. The bark of this species is darker, thicker and less bitter than that of *S. discolor*. Both are natives of North America. It occurs in long, thin, tough, fibrous strips, brownish or greyish-brown externally. The taste is astringent and bitter, somewhat aromatic. The bark contains about 4 per cent. of tannin and 1 per cent. of salinigrin, a colourless, crystalline glucoside. It is given as a sexual sedative, astringent and tonic. A fluid extract of 1 in 1 is given in doses of 15-60 minims.

Salol.—Salol is chemically phenyl salicylate ($C_6H_5O_2H.COOC_6H_5$), and is obtained by heating sodium salicylate with sodium phenate and phosphorus oxychloride. The product is washed free from chlorides and is recrystallised from alcohol. It occurs in rhombic crystals having a slight characteristic odour. It is insoluble in water but soluble in alcohol, ether, chloroform, almond oil and liquid paraffin. The pure dry compound melts at 42.5° , the B.P. allowing $42-43^\circ$. Impurities liable to occur are free salicylic acid, phenol, and chlorides. When shaken with water and the mixture filtered, the filtrate should give no colouration with ferric chloride, and no reactions for chlorides. It is hydrolysed by alkalis with formation of sodium salicylate and phenol, and for this reason is used in medicine as an intestinal antiseptic since decomposition is delayed until the drug reaches the alkaline conditions obtaining in the duodenum. It is also used as a urinary antiseptic. The antiseptic value of salol is due to the salicylate content rather than the phenolic, but large doses cannot be given owing to the toxic effects of the phenol simultaneously liberated. (See Salophen.) In dispensing salol finds a second function as a pill coating in place of keratin (see "The Art of Dispensing," p. 157).

Salophen is acetyl *para*-aminophenyl salicylate or acetyl *para*-aminosalol, $C_6H_4OH.COOC_6H_4NHCOCH_3$. It can be obtained by reducing *p*-nitrophenyl salicylate in glacial acetic acid with zinc and acetic acid under a reflux condenser. On pouring the product into water, the compound is precipitated, and is filtered off and recrystallised from alcohol. It occurs in white crystalline scales, colourless and odourless. Melting point 198° C. Insoluble in water, but readily soluble in organic solvents. Impurities liable to be present are chlorides, phenol derivatives and free salicylic acid. The solution obtained on shaking with water and filtering should give no colouration with ferric chloride, and no opalescence with silver nitrate and nitric acid. It is used in medicine for the same purpose as salol, but can be given in larger doses since the acetyl *para*-aminophenol formed on hydrolysis is not toxic.

Salt, Common.—From very ancient times common salt has been esteemed as an article of food, and consequently is of great commercial importance. It has been suggested that many of the early trade routes were opened up mainly for the conveyance of salt. Salt is an essential addition to the food of animals, including man, living largely on a herbivorous diet. It is the source of the acyronic present in the gastric juice, and for this purpose alone a man is estimated to require about 16 lb. per annum. The total consumption per head of the population per annum has been estimated at 29 lb. Salt is obtained either from sea-water or from naturally occurring deposits of rock-salt or "halite." The average salt content of sea-water is $\frac{2}{3}$ to $\frac{3}{4}$ per cent. and the extraction is a commercial proposition in many warm countries where solar heat can be utilised for evaporation. Concentration is effected in large clay "salt-ponds," which are arranged so that the highest can be filled at high tide and the brine run off into other ponds as required. The first series of ponds is for concentration purposes, the brine being allowed to concentrate until a certain definite s.g. is attained. The concentrated brine is then run off into crystallisation ponds, in which further evaporation takes place, and salt of about 96 per cent. purity separates. The crystals are scooped out and allowed to drain, the more deliquescent magnesium chloride being washed away. The mother liquor, or "bittern," remaining in the ponds is used as a source of bromine. In northern Russia concentration is effected by freezing. The ice is removed, and the residual brine then evaporated over a fire. Deposits of rock-salt occur in practically every civilised country, and most of them are worked commercially. The most notable are those at Wiesbecka (Galicia), which have been worked for six hundred years. Salt from the mines at Cordova (Spain) is mentioned by Pliny as having been preferred by physicians. In Galicia the salt is brought to the surface in lumps, and powdered, but it forms large hard masses on being stored. In Cheshire, where the existence of solid salt deposits was discovered in 1670, the salt is obtained by forcing water into the deposit and pumping up the brine. Evaporation of the brine, until recent times, was conducted by warming in shallow iron pans. In a modern improvement evaporation is effected by waste heat in vacuum pans. The pans are arranged in series and in each pan is a coil through which the fine gases are passed in succession. The pressures in the pans are arranged so that in each one the brine is maintained at the boiling point. The formation of a scale of calcium sulphate is prevented by adding a small amount of calcium chloride in the presence of which calcium sulphate is precipitated with the salt. This process yields a fine grain table salt. Sometimes the product is mixed with 3-4 per cent. of calcium phosphate, which lessens the deliquescence of the magnesium chloride and makes the salt more "pourable." Owing to the high degree of purity—about 98 per cent.—of Cheshire salt, the process is practically continuous, but the ebullition in the vacuum pans precludes the formation of anything but a fine-grained salt. Coarse-grained fishing salt and the coarser bay salt are obtained by slow evaporation at a low temperature, and by careful control of these factors any desired size of crystal can be produced. The addition of a little alum to the brine favours the production of large hard crystals. On the Continent concentration of the brine is effected by allowing it to trickle through stacks of faggots in the open air, exposed to wind and sun. The upkeep of these "graduates" is, however, expensive; furthermore, the rate of evaporation is dependent on the weather, and as a result the method is gradually being superseded by the vacuum pan process. Apart from its use as a condiment, salt is used as a starting point for the manufacture of practically all sodium salts and chlorine compounds. It is also used as a preservative for meat and fish, and in glazing the commoner forms of pottery such as drain pipes, etc.



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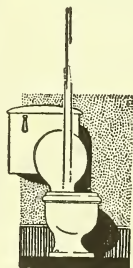
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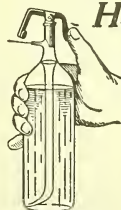
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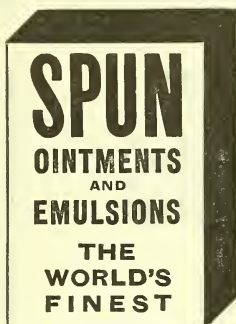
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NOTE.—The above bonus is only allowed when **VENO'S LIGHTNING COUGH CURE** is included in the usual £5 or £10 orders for Beecham-Veno preparations.

SEND AN ORDER TO-DAY
through your wholesaler or direct from

BEECHAMS PILLS LIMITED,
CHESTER ROAD, MANCHESTER.

CHEMISTS—YOUR OPPORTUNITY

VUNDI
VITALIZED
MALT

containing

THE VITAMINES OF YEAST, COD LIVER OIL
AND CITRUS FRUIT

VITAMINES A. B. C. & D.

*A postcard will bring prices and samples by return*Telephone: Hop 2422
Telegrams: "Ushenspuna, London"**ROBERT BLACKIE**SHEN WORKS,
163 TOWER BRIDGE
ROAD, LONDON, S.E.1**The
Antacid
Digestant****'BiSoDoL'**
(REGD. TRADE MARK)
**is now
made in
London**Terms of your Wholesaler or direct to:
BiSoDoL Limited
12 Chenies St., London, W.C.1.

....."Fine 'Tosse' Products".....

**NITROSCLERAN
BISMOGENOL
EKZEBROL**

EXTENSIVELY ADVERTISED TO THE MEDICAL PROFESSION

Importers: **BOXALL SMITH & CO.**
163a Strand, London, W.C.2*Antiphlogistine*

£5 Orders give 33% net. Carriage Paid

THE DENVER CHEMICAL MFG. CO., LONDON, E.3

GALLOWAY'S COUGH SYRUP

*SHOWS OVER 50% PROFIT
WHEN BOUGHT ON BEST TERMS*

A £5 ORDER

ENTITLES YOU TO

**10% DISCOUNT & 2½% FOR PROMPT CASH
WITH A BONUS OF
½ DOZ. 1/3 SIZE OR ¼ DOZ. 2/6 SIZE
FOR 14 DAYS WINDOW DISPLAY.**

1/3 SIZE 12/- PER DOZ.

2/6 „ 24/- „ „

CARRIAGE AND PACKING FREE IN UNITED KINGDOM

**LOOK TO YOUR STOCKS AND
SEND YOUR ORDER NOW**

**P. H. GALLOWAY, LTD.
LONDON, S.E.17**

THE MERITS OF Licoricine

ACTS LIKE MAGIC

It does what is Claimed for it

It is Excellent Value

It yields a Good Profit

It brings Repeats and Profits

Do you get your Share ?

LICORICINE SELLS READILY, HAVING BEEN
ON THE MARKET OVER 60 YEARS.

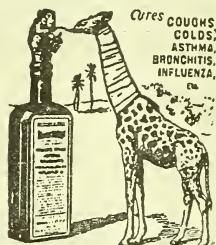
10½d. size - 8/6 per doz. net
1/3 " - 12/- "
3/- " - 27/- "

£2 worth Carriage Paid.

50 worth and upwards subject to 5% discount.

Minimum Retail Prices 10½d., 1/3 & 3/-

TO LONDON
CHEMISTS
Be sure to increase
your stocks as
LICORICINE
is being advertised
in the London papers



"No case too bad!"

MANDALL & CO., LTD.

17/23 STEPNEY ROAD, NEWCASTLE-ON-TYNE.

CAPSULES d'ENERGIE

(Gland Compound with Glycerophosphates)

5/- size 22/- per doz.

10/- size 40/- per doz.

∴ Attractive Showcards ∴

Special terms and packing for export.

Obtainable through usual Wholesalers or from :

John W. Mawson & Co., Ltd.

London, S.E.27

SAMPLE BOX ON REQUEST.

EVERY SALE OF

HIMROD'S Asthma Cure

CREATES A SATISFIED CUSTOMER

SUFFERERS SEEKING RELIEF FROM



The paroxysms of
BRONCHIAL ASTHMA
Asthmatic Hay Fever
Common Colds
Nasal Catarrh
Bronchitis

Will be quickly helped by the use of this time-tried remedy.
Burn half a teaspoonful, inhale the fumes and the distress vanishes.

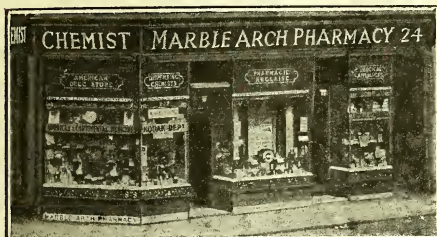
ON THE MARKET FOR OVER 50 YEARS

"Himrod's Cure is a well known product, very useful in many cases."
—W. J. Hadley, M. D., formerly lecturer at London Hospital.

May be had from wholesale distributors throughout the world

Himrod Manufacturing Company, Mfrs.
463, 5 Eleventh Street, Hoboken, NEW JERSEY, U.S.A.

Two more London Chemists testify to remarkable increasing demand for 'ASPRO'



SALES DOUBLED with Current Window Display

T. M. BLACK, DISPENSING CHEMIST,
160 Franciscan Road, Tooting, S.W.17

To 'ASPRO' Limited, Trading Estate, SLOUGH, Bucks.
Dear Sirs,—Just a line to let you know how pleased I am with the 'ASPRO' window show you sent me. The result since putting it in has been very marked—my sales have been more than doubled and the increase has been most marked in the 25's size.

There is no doubt in my mind that the policy of the chemist is to devote his window display to lines which are heavily advertised as yours is. It keeps a constant stream of purchasers coming into the shop which can be turned to good account for other lines stocked by us chemists.

Wishing you every success,

Yours faithfully,

THOMAS M. BLACK.

BONUS ON 10's.

- One Gross Order - Bonus 1 dozen packets.
- Half Gross Order - Bonus $\frac{1}{2}$ dozen packets.
- Half gross 10's is minimum order accepted for Bonus purposes.

NO BONUS ON 5's OR 60's.

CONDITIONS.—The conditions are, that upon receipt of each bonus the chemist undertakes to show 'ASPRO' Display matter in his shop window for 14 days, and to sell at advertised prices. Acceptance of bonus is considered as acceptance of these conditions. To qualify for the bonus it is not necessary for the chemist to buy both sizes at the same time but single lots may be ordered, viz., 6 doz. 10's or 3 doz. 25's.

SOLD IN 3d., 6d., 1/3 and 2/6 sizes with corresponding Wholesale prices of 2/3, 4/6, 11/6 and 21/- per dozen subject to $\frac{1}{2}\%$ discount 30 days.

'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Sciences and its claims are based on its superiority.



Agents: **GOLLIN & Co. Pty. Ltd. ('ASPRO' Dept.), Slough, Bucks.**

No proprietary right is claimed in the method of manufacture or the formula.

'Phone: SLOUGH 608

Made by **ASPRO LIMITED, SLOUGH, ENGLAND.**

MARBLE ARCH PHARMACY
Proprietors: HYGIENIC STORES, LTD.
ENGLISH & FOREIGN CHEMISTS,
24 EDGWARE ROAD, W.2
Telephone: PADDINGTON 7629.

27th April, 1929.

Dear Sirs,—Permit me to take this opportunity of telling you how satisfied I am with 'ASPRO' sales. I recommend it extensively to all my customers, as indeed do all my four assistants and we have yet to find a dissatisfied customer, or a case in which the desired relief from pain has not been obtained.

Our close proximity to Hyde Park has brought us experience that has taught us that 'ASPRO' is very well recommended for headaches caused by sun-glare, and for the normal day-trippers headache. In fact we confidently recommend 'ASPRO' in all those cases where the use of aspirin is indicated, and particularly in those cases where ordinary aspirin is not well tolerated.

Faithfully yours,

THE MARBLE ARCH PHARMACY.

'Aspro' Bonus System for Chemists gives Extra 17% Profit

Send for special window display and buy 'ASPRO' on exclusive bonus terms for chemists. Order through your Wholesaler. The bonus works out as follows:—

BONUS ON 25's.

- One Gross Order - Bonus 2 dozen packets.
- Half Gross Order - Bonus 1 dozen packets.
- Quarter Gross Order - Bonus $\frac{1}{2}$ dozen packets.
- Quarter gross is minimum quantity.

HYDROGEN PEROXIDE

IN BOTTLES—ALL STRENGTHS
Exceptional Stability & Purity
ATTRACTIVE TERMS
GENOXIDE LIMITED, LUTON

Vapo-Cresolene



The great vaporised anti-septic, gives relief at once.

For nearly 50 years Vapo-Cresolene has been known and sold throughout the world as the reliable remedy for bronchial troubles such as

COUGHS, COLDS,
INFLUENZA,
BRONCHIAL ASTHMA,
CROUP, BRONCHITIS, AND
WHOOPIING COUGH.

AN
**EXTENSIVE
ADVERTISING
CAMPAIGN**

is now running and will continue throughout the whole of the winter.

STOCK AND SELL VAPO-CRESOLENE.
**QUICK SALES,
SUBSTANTIAL PROFITS,
SATISFIED CUSTOMERS.**

ALLEN & HANBURY LTD., Lombard Street, E.C.3.



Make displays and attract custom. Order your stock to-day and apply for free advertising matter.

DRUMMER DYES

EDGES

BOLTON

London Office:
 EWING HOUSE, 73 4, CHISWELL STREET, LONDON, E.C.1

A Household word for 35 years

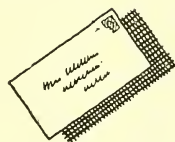
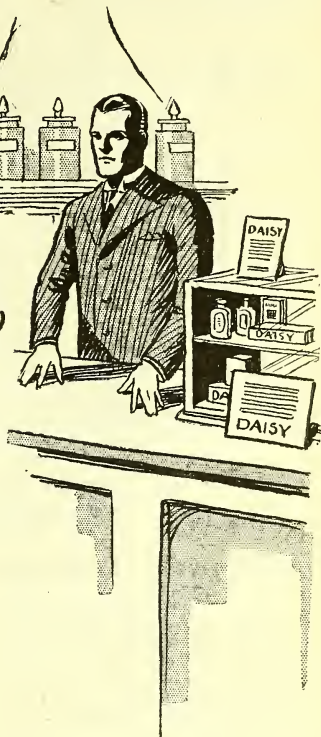
The sales of Daisy Powders have never been artificially inflated, but have steadily advanced for 35 years as the result of well-founded public confidence. That is why the demand is widely spread and regular all the year round.

Daisy yields a profitable return to Chemists and Druggists, with the certainty of a quick turn-over that is never subject to erratic fluctuations.

In addition to the single Daisy Powders which sell in great numbers everywhere, the handy half-dozen box is now becoming increasingly popular for household use, and can be confidently recommended to customers as a safe precaution against headaches, neuralgia and all nerve pains.

"DAISY"
POWDERS

DAISY LTD., HORSFORTH, LEEDS



An attractive small showcard, together with trade terms, will be sent on request.

COLLOSOl FERROMALT

(CROOKES)



THE MOST SUCCESSFUL
IRON TONIC on the
MARKET.

Daily increasing in popularity with both the medical profession and the public. Collosol Ferromalt is now supplied in an attractive packing, admirably adapted for counter display.

Collosol Ferromalt gives a satisfactory margin of profit, and the assurance of complete satisfaction to your clients.

TERMS AND PARTICULARS FROM
THE CROOKES LABORATORIES
(BRITISH COLLOIDS, LTD.),

22 CHENIES STREET, LONDON, W.C.1

Telephone Nos.:
Museum 3663, 3697, 5757.

Telegrams:
"Collosols, Westcent, London."

Export Distributing Agents, AYRTON, SAUNDERS & CO., LTD., LIVERPOOL.

**Steadily—systematically,
the medical profession
are kept informed**



Note New and Improved Cap as illustrated.
Two packings, 4/6 & 7/-

A big campaign of propaganda has again been launched directing the attention of the Medical Profession to the unusual advantages of Salvia as a Uric Acid eliminative, antacid, anti-rheumatic and diuretic.

It is a product you can sell and recommend with the utmost confidence. It retails in two packings at 4/6 and 7/-, the latter being the more economical size. Order through your wholesaler or write for further details direct to sole distributing agents.

Sole Agents:

COATES & COOPER
41 Gt. Tower St., London, E.C.3

Salvia

Manufactured by American Apothecaries Co., New York

DISPENSING LINES TO NOTE

"ARCOLAX"

A natural Vegetable Product for the treatment of Habitual Constipation.

Boxes 3/4

"ROBUVAL"

Elixir Strontii Bromid. et Valerian. Deodorat. An extremely palatable Calmative and Nerve Sedative.

8 oz. Bottles 3/6

Prepared and extensively advertised by

ROBERTS & CO.
PHARMACIENS

76 NEW BOND STREET, LONDON, W.1

Telephone: MAYFAIR 4173-4.



Ku-bist

Advertisements

that will bring
you customers are
appearing in:—

Punch Almanack
Passing Show
London Opinion
Argosy Magazine
London Magazine
Cassell's Magazine
Storyteller Magazine
New Magazine
Quiver Magazine
Strand Magazine
Home Chat
Film Weekly
Etc.

Ku-bist

CHRISTMAS SELLERS

There is a splendid opportunity for increased Christmas sales in Ku-bist Beauty Creations. They are the perfect Christmas Gift for every woman—dainty, fragrant, of real use, and with a presentation that lifts them right out of the ordinary, as a Christmas gift should be. Increased profits automatically follow, for there is a handsome margin on every line. We illustrate a selection of the most suitable lines to stock. Make out your order right now ready for the early demands.

- | | | | | | |
|--|------|----------|--|-----|------|
| 1. 3-Piece Coffrets, comprising Compact, Lip-stick and Jasmine Perfume | 9/- | 6/- | 7. Cold Cream and Vanishing Cream in dainty tinted glass jars | 1/6 | 12/- |
| 2. 1-oz. bottles No. 7 Perfume in gold covered lined container | 17/6 | ea. 11/- | 8. Skin Food and Lemon Cleansing Cream | 2/- | 16/- |
| 3. 1-oz. bottles No. 7 Perfume, in all-gold containers | 19/6 | 12/6 | 9. Creme de l'Opera. A newcomer to the range and an instantaneous success | 2/9 | 20/- |
| 4. Ku-bist Compact, Gift case, mirror in lid. Powder in four shades | 10/6 | 6/6 | 9. Brilliantine, Hair Tonics, Shampoos, (small) Sunburn Lotion, Wave Setting Lotion, (med.) etc. (large) | 1/3 | 10/- |
| 5. Ku-bist De-Luxe Perfume (Eau-de-Cologne, Lavender and Jasmine) in all-gold containers | 3/6 | 27/- | 10. Talcum Powder. Of delightful fineness and fragrance, in attractive frosted white jar | 2/3 | 17/- |
| 6. Eau-de-Cologne, Lavender and Jasmine Perfumes. Small, in fancy covered boxes | 2/3 | 19/- | 11. Bath Perfumes, Eau-de-Cologne and Lavender Water | 2/- | 16/- |

Quantity Discounts.—3 dozen lots less 2½%. 6 dozen lots less 5%. 12 dozen lots less 7½%. (2 orders carriage paid.)

The delightful full-colour showcards illustrated are sent free with your order.

NOW NATIONALLY ADVERTISED—See alongside Illustration.

KU-BIST SALES - White Horse Street - LEEDS Also at PARIS
 Scottish Agents:—S. S. GOLDBERG & CO. LTD., Oxford St., GLASGOW. Irish Agents:—LITTLE & JONES, 27, Gt. Strand St., DUBLIN.

A SEASONABLE LINE

LIBERAL PROFIT. POPULAR PRICE.



Turkies the Air
KILLS THE GERM AND INSTANTLY EASES THE COUGH.
FROM ALL CHEMISTS.

14/- per dozen

Send for free sample to:

McCLURE, YOUNG & Co., Ltd.
Glenham Road - Barnes, S.W.13

**SHEPPEY'S
MEL ROSE****Tablet for Face and Hands**

is displayed and recommended by Pharmacists who know how readily it has sold during 49 years both to customers who cannot afford more costly Preparations and to hundreds of thousands who can. New season's Advertising is about to commence.

TERMS: *Of all Wholesalers:*

	Per Doz.	Per Gross
2d. Tablet (formerly 3d.)	1/4	16/-
4 1/2d. Tablet (formerly 6d.)	2/10 1/2	34/6

**THESE LINES ARE
—P.A.T.A. LINES—**

In addition to the Tablet, our new season's Advertising will feature MEL ROSE "New Century" CREAM (in Tubes). This complexion cream, introduced a year ago, at once established itself as a quick-selling popular line.

Of all Wholesalers:

	Per Doz.	Per Gross
6d. Tube	4/-	48/-
10 1/2d. Tube	6/3	75/-

MEL ROSE "New Century" CREAM

Manufacturers:

ROBERTS & SHEPPEY, 2 Skipton Street, LONDON, S.E.1

*In the last
5 years
the sales of*

**TOWN TALK**

LIQUID SILVER POLISH
& SILVER PLATE CLOTH

have increased
3 Fold

Get your share of the
trade by ordering from

JAMES WOOLLEY, SONS & CO., Ltd.,
Manchester
AYRTON, SAUNDERS & Co., Ltd., Liverpool
BROOKS & WARBURTON (American Drug
Supply Co.), Ltd.

Town Talk Polish Co.
Whitby St., Bradford Road, Manchester



If you would protect your customer from

INFLUENZA

persuade him to use a

DEVILBISS SPRAY

BOTH NIGHT AND MORNING.

You can supply him with one
complete with solution for 4/6

Ask us about this—

THE DEVILBISS CO., LTD.,
WEST DRAYTON : : MIDDLESEX
And 27 Old Bond Street, W.

KARL HÖLL A.-G.

Langenfeld, near Cologne, Germany
EXPORT TO ENGLAND SINCE 1884.

Manufacturers of:—

TUBES of all kinds,
plain and decorated.

SPRINKLER TOPS of
all sizes and styles.



IMPORTANT: When asking
for quotations send samples already used and
state quantities required. Goods will arrive
in 3-4 days with direct steamer from Cologne.

CACHETS FAIVRE

(Oxyquinoline)

are now obtainable in a

NEW AND POPULAR SIZE

To Retail at 1s. 0d. per box

TERMS TO RETAILERS

9s. 0d. per doz.

From all Wholesale Houses

or direct from

WILCOX, JOZEAU & Co., (Foreign Chemists) Ltd.

15 Great St. Andrew Street

LONDON, W.C.2.

DUBLIN: 19, Temple Bar.

YADIL

The Antiseptic Certified Safe by Public Analysts and Pathologists for Internal and External Use.

The new popular priced sizes and widespread advertising of Yadil are speeding up sales—display it and get your share of the new business.

Retail prices: Liquid, 1/3; Yadilets, 1/3; Ointment, 1/3 per tin. There are larger sizes of all the above, and also Yadil Pastilles selling at 1/- per tin, and Yadil Soap 1/- per tablet.

YADIL PRODUCTS (1925) Ltd. Sicilian House, London, W.C.1

GARFIELD TEA

PROMPT SHIPMENT

ALL SIZES

'Phone or Write:

GARFIELD TEA CO.

44 Foxbourne Road.

BALHAM, LONDON, S.W.17.

"ORASEPS"

An Antiseptic
Mouth Wash

Retail Price 3/-

In notifying the Retail Drug Trade of this New Preparation we would emphasise the fact that

AN EXTENSIVE ADVERTISING CAMPAIGN

in the Public Press will commence early in November.

This will be on such a scale as to ensure an immediate demand for

"ORASEPS"

The co-operation of Retail Chemists is sought, and no effort will be spared to study and foster their interests.

Retail Price 3/-

Wholesale Price 27/- doz.

Subject to liberal discounts for 3, 6 and 12 dozen lots.

Obtainable from all leading Wholesale Houses or direct from

"ORASEPS"

LIMITED

Manufacturing Chemists

7 SWAN LANE, Upper Thames
Street, LONDON, E.C.4

Telephone - - - Mansion House 8510

"Edme"

Malt Extract with Cod Liver Oil

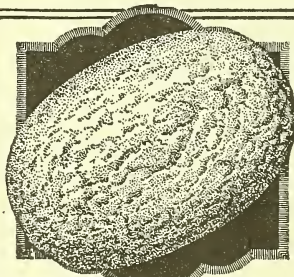
Guaranteed pure and free
from Preservatives

Manufactured
from Selected
English
Barley Malt
only
and the Finest
Norwegian
Cod Liver Oil

Works :
Mistley, Essex

Write for quotation and sample

Edme Ltd 122, Regent St,
London, W.I.
Telephone:
Regent, 6719. "Edme, Piccy, London"



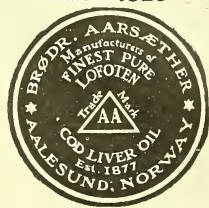
Two thirds
actual size

Bath Rusks

Unsolicited testimonials daily for Carr's famous Bath Rusks which are ideal for babies and young children. Scores of letters from grateful mothers. Recommended everywhere.

Made only by
CARR'S of Carlisle
The Oldest House in the Trade

Season—1929



Agent for Scotland:
ANDREW STEVEN,
7 York Street, Glasgow.

COD LIVER OIL

GUARANTEED GENUINE. FINEST PURE LOFOTEN.

Manufacturers :

BRÖDR. AARSÆTHER A/S, Aalesund, Norway.

LARGEST MANUFACTURERS OF COD LIVER OIL IN NORWAY.

SPECIALITY—Cattle and Poultry Feeding Oils.

Stocks always held in London.

In 25-gallon tin-lined barrels.

SOLE AGENTS **FREUDENTHEIL, SMITH & CO.**
FOR U.K.:

Tel. Add.: "FREUDENRUF." 21 Mincing Lane, LONDON, E.C.3. Tel.: ROYAL 6600.

Codes used: A B C, 4th and 5th Edits, Bentley's, and Private.

SUNSHINE

GLAXO

Humanised
and
modernised

with
added
Vitamin D

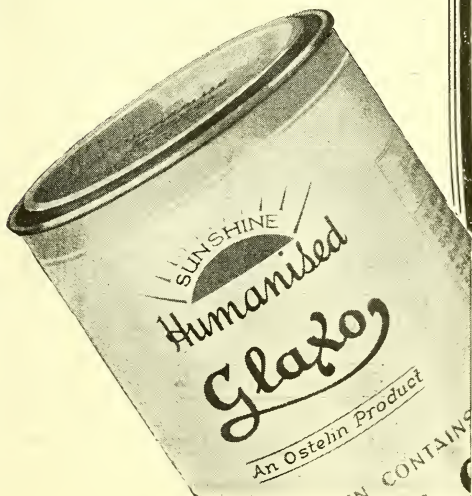
Progressive business development, based on advanced knowledge, has led to further improvement in Prescription (Humanised) Glaxo, which now contains a definite added quantity of "Ostelin" Vitamin D and is, for that reason, appropriately known as SUNSHINE GLAXO. For improving bone formation and dentition, and preventing the occurrence of rachitic conditions, the new SUNSHINE GLAXO is entirely adequate. The definite addition of "Ostelin" Vitamin D, by ensuring proper lime absorption, has removed the necessity for a high fat content with attendant trouble from fat intolerance. Constipation is prevented and there is no risk of flatulence or any other trouble usually associated with a milk diet.

In the past, it was necessary that infants' food should contain excess of milk fat, so as to provide an adequate supply of Vitamin D. But the presence of this excess of fat was always a potential cause of trouble. Now, by the inclusion in SUNSHINE GLAXO of "Ostelin" Vitamin D, all infantile disorders due to excess of fat are avoided, since readjustment of the proportions of fat, protein, and carbohydrates in the food has been rendered possible, in a way that ensures a correct balance in the constituents of the food.

SUNSHINE GLAXO in two sizes only, 2/- and 4/-

All tins are dated twelve months ahead, thus solving the problem of stock-keeping.

For further information,
apply to SALES MANAGER,
56 Osaburgh Street, London,
N.W.1.



SALES STEADILY & CONSISTENTLY INCREASING. LARGELY PRESCRIBED BY THE MEDICAL PROFESSION

KIRBY'S No. 1 EMULSION

containing 50% pure unrefined Cod Liver Oil

VITAMIN TESTED AND GUARANTEED

With HypophosphitesFor Children & AdultsWithout HypophosphitesFor Breast & Bottle Fed Babies**4oz. 1s. 3d.****8oz. 2s. 6d.****16oz. 4s. 6d.***Prepared as recommended by eminent Medical Specialists.**Silver Medal—Royal Sanitary Institute.***A clear profit of 33 $\frac{1}{3}$ % with Bonus for Window Display**

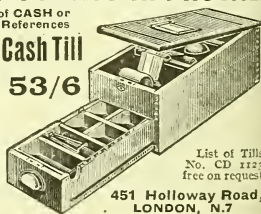
WRITE FOR PARTICULARS OF OUR SPECIAL OFFER

*May we put you on our list of Local Agents?**Supplies from all London and Provincial Wholesalers or direct.***Fairbank Kirby (GRIMSBY) Ltd., Cleethorpe Road, Grimsby**ORDER NOW
FOR WINTER
TRADE.**MASON'S
Ginger Wine Essence****QUICK
SALES****GOOD
PROFIT**Liberal Window Show Allowance
Artistic Display Material

SEND FOR PRICES.

NEWBALL & MASON, LTD. NOTTINGHAM**RIDGE'S
FOOD***for Infants, and Adults of all ages.*

WELL ADVERTISED to the GENERAL PUBLIC.

SAMPLES, ADVERTISING MATTER and SPECIAL
DISPLAY TERMS on APPLICATION TO:**ROYAL FOOD MILLS, LONDON, N.16****SENT ON 14 DAYS APPROVAL**Upon RECEIPT of CASH or
Two Wholesale References**'The Argyle' Cash Till****53/6**Size 12 $\frac{1}{2}$ x 9 $\frac{1}{2}$ x 7, as
illustrated. Solid
mahogany, highly
polished. Lock to
lid and drawer.
Check action, warn-
ing bell and secret
catch. Cols 2 pins,
wide, 4 doz.
Buy direct from the
manufacturers.
Guaranteed for
5 years.List of Tills
No. CD 1123
free on request**451 Holloway Road,
LONDON, N.7****DUDLEY & CO. Ltd.** City Showrooms:
65, 66 Fore St., E.C.2

MILLAMALT

is the new name for our VITAMIN MALT FOOD

MILLAMALT

contains Vitamins A, B, C & D in the correct proportions so that the recommended dose is sufficient for all requirements.

MILLAMALT

contains double the Vitamins A & D present in the finest Cod Liver Oil without the fishy taste.

MILLAMALT

is of a delightful flavour and can be taken with the same pleasure as chocolates.

Our large output of Vitamin Malt Food last season enables us to reduce the retail price to 1/6 per 1 lb. jar and show a generous profit to the retailer.

Write for Samples and Prices.

ATTRACTIVE GET-UP, AMPLE LITERATURE AND SHOW MATTER.

JEFFREYS MILLER & CO., LTD.

MALT EXTRACT MANUFACTURERS,

LEYLAND MILLS,

WIGAN

Phone : 327 Wigan

Tel : Maltum
Wigan



The "Charlotte" (Regd.) Hot-Water Bottle Cover

	Best Quality. (Velour)	2nd Quality. (Plushette)
8 × 6 in. ..	20/3	12/- doz.
10 × 6 in. ..	21/6	13/- "
10 × 8 in. ..	23/-	15/- "
12 × 8 in. ..	25/-	16/- "
12 × 10 in. ..	26/6	18/9 "

Supplied in pink, blue, peach and grey.

THE ONLY SATISFACTORY HOT
WATER BOTTLE COVER ON THE
MARKET.

— NO MORE BURNS. —

STOPPER COVERED COMPLETELY.

Introduced by

C. J. HEWLETT & SON, Ltd., 35-42, Charlotte Street, LONDON, E.C.2.

"STERAID" Regd. Dressings

Patent No. in Great Britain
22176/1924 and patented in all
the principal foreign countries.

Patent Rotating Canister packing to retain aseptic conditions. In use, only the
amount required is withdrawn and cut off. The remainder is not exposed.

GAUZES.

	Minimum Public Prices Each	Minimum Trade Prices Per Doz.
Sal Alembroth	6-yd. 3-yd. 1-yd.	6-yd. 3-yd. 1-yd.
Sublimate	2/3 1/3 1/8	20/3 11/6 6/4
Carbolic		
Boric		

	Minimum Public Prices Each	Minimum Trade Prices Per Doz.
Plain Absorbent	2/- 1/2 -/8	18/- 10/6 6/-
Double Cyanide	2/6 1/5 -/9	22/6 12/9 6/9
Iodoform	3/- 1/8 -/10	27/- 15/- 7/6

LINTS. PLAIN and BORIC.

	Min. Public Prices	Min. Trade Prices
2in. wide	1/3 each	11/3 doz.
4 "	1/9 "	15/9 "
6 "	2/3 "	20/3 "
Approx. 6 yds. Plain and 4 yds. Boric		

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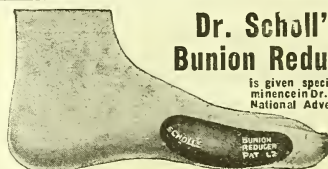


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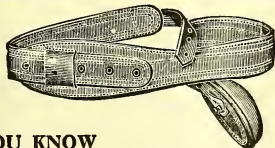
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NOVEMBER 9, 1929

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stock clean; fittings modern; new lease will be granted or present very favourable lease may be purchased; price of business, valuation of stock and fixtures plus one year's net profit for goodwill.

9.—HEREFORDSHIRE.—General Retail Business, with Kodak Agency; situated in pleasant district; returns £1,352 without N.H.I.; net profit £538; double-fronted shop, well fitted and stocked; large house with bathroom; side entrance; rent with house £120, or as lock-up shop £70; price £825, or without living accommodation £750.

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12.—SOUTH COAST.—General Retail and Dispensing Business, with N.H.I.; returns last year £3,159, with gross profit £1,098; scope for increase under energetic management; double-fronted shop; new lease; rent £150; price £2,200, or near offer; ill-health cause of sale.

13.—EAST COAST (Modern Town).—Good-class Retail and Dispensing Business; returns last year £5,452; net profit over £1,300; estimated value of stock and fixtures £2,750; new lease; rent £250; price £2,750, plus stock at valuation.

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OLD-ESTABLISHED Business, opposite busy suburban station; profitable turnover; returns moderate owing to ill-health and lack of capital, but capable under young and energetic management of a much larger turnover; grand scope for young man with small capital; owner giving up business; cash only, £225; rent 16s. 6d. week. 157/25, Office of this Paper.

SHOP (Lock-up), must be sold immediately; situated in crowded London suburban market centre; first-class opportunity for a qualified man to take on Panel; £475. Full particulars on application. "Lux," 643 Lea Bridge Road, E.10.

£100 NET, all at (for early transfer), purchases established Drug Business; in present hands nearly 8 years; average returns £12-£14 weekly; splendid opportunity for N.H.I.; two surgeries near by and no Chemist; main road, London, working-class; price includes house (4 rooms); special reason for relinquishing; rent and rates, inclusive, 20s. weekly. Apply "Bargain," 161/3, Office of this Paper.

BUSINESSES WANTED.

BERDOE & FISH are in urgent need of sound concerns up to £4,000, and in particular several in or near London with turnovers of about £5,000 or more; cash buyers waiting and quick sales assured; correspondence cordially invited. Transfer Offices, 41 Argyll Square, King's Cross, W.C.1.

DRUG Store required in good-class district; Yorkshire preferred; £100 cash balance by arrangement; in strict confidence. Full particulars to 157/20, Office of this Paper.

LONDON.—Chemist desires to purchase a business and living accommodation. Full particulars in first letter. 160/60, Office of this Paper.

WANTED by Chemist now in South Africa, a sound and old-established Business, with turnover not less than £2,000 per annum, in the Sale of Wight or South Coast. Write stating price, with fullest particulars and photograph of premises, 155/30, Office of this Paper.

WANTED immediately, about 12 Businesses in or near London, returning from £40 to £60 weekly. Orridge & Co., 56 Ludgate Hill, E.C.4.

WE have a client who is seeking a qualified Chemist with a small group of businesses who would amalgamate with an existing group; the amount of capital to be expended is about £125,000; the qualified Chemist would become Managing Director. Orridge & Co., 56 Ludgate Hill, E.C.4.

AGENCIES.

AGENTS wanted immediately for Birmingham, Manchester, Yorkshire and Scotland and districts to sell Elastic Hosiery, Surgical Belts and Appliances; must be already handling drug sundries. Thomas Glover & Son, Ltd., Carlton, Nottingham.

INDIA.—Well-known German Chemical Pharmaceutical Manufacturers seek for their world-known Rejuvenating Preparations first-class firm with own branches in India as Sole Agent; references required and given. Write to J. B. 9778, Rudolf Moeser, Berlin, S.W. 100, Germany.

LIVE Salesman, own car, calling on Chemists in Irish Free L. State, open for Agencies; would consider whole-time representation of firm of repute; references and security given. ZC.383, c/o Deacon's, Fenchurch Avenue, London.

SHAVING Brush Manufacturer requires Agent, on commission, for London, calling on the Wholesale; a valuable connection will be handed over to the applicant selected who must be able to command good business and have the entrée to the leading houses. Kindly state full particulars, stating turnover and connection, which will be treated in confidence. P.C.B. 87/17, Office of this Paper.

15 PER CENT, commission to Agents with established connections to carry well-known Worm Cakes, Chocolate Confections, Skin Ointment, etc.; only men realising the possibilities of the lines need apply, stating ground and other lines in confidence. 161/30, Office of this Paper.

PREMISES FOR SALE.

A HOUSE for Sale, Galloway Road, Shepherd's Bush, W.12, close to train, tube and bus; can be converted into a shop if desired suitable for a Chemist, being in a densely populated district; lease 99 years; ground rent £6 10s. per annum; price £625, or near offer. To view apply M. J. Allen, 117b Galloway Road, Shepherd's Bush, W.12, close to the property.

PREMISES TO LET.

HORSHAM (Main Street).—Lock-up shop and large store room to let on lease; £52 per annum, excellent opening for Chemist; no immediate competition. Further details of A. Thompson, Orchard Cottage, Lancing, Sussex.

OXFORD STREET (just out of).—Fine, lofty, very dry and light Basement Show Room, with hydraulic goods lift; to be let on lease. Apply F. R. Hadsley, 71 Duke Street, Grosvenor Square.

PARTNERSHIP.

ACTIVE Partner wanted (lady or gentleman); M.P.S. qualification not essential so long as routine knowledge of Drug Store business has been gained; Branch Pharmacy with accommodation if desired; capital investment £250 to £750. Reply, stating age, experience, when disengaged, to Lorne, 37 Lennox Road, Walthamstow, E.17.

APARTMENTS.

STUDENTS or Assistants; comfortable quiet lodging in Shepherd's Bush for two; reasonable. Mrs. Cleverly, 4 Galloway Road, W.12.

SITUATIONS OPEN.

RETAIL [HOME].

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BIRMINGHAM.—Wanted, unqualified Assistant for good-class business, Dispensing and Counter (27 to 30). State salary and experience. D. R. Whitley, Villa Road, Handsworth.

BIRMINGHAM.—Manager, young, married, for small branch in working-class district; good house; one able to work up business; take complete control; share in profits offered. Full particulars of age, experience, salary, etc., to 158/4, Office of this Paper.

BOURNEMOUTH.—Smart, intelligent Junior Assistant wanted; high-class Dispensing business. State age, height, experience, and salary required. James A. R. Dick, 312 Wimborne Road, Bournemouth.

BRIGHTON.—Qualified Assistant to manage small branch in good working-class district, required at an early date. State full particulars and salary required to "H. E. T.", 160/1, Office of this Paper.

CHANNEL ISLANDS.—Wanted, keen, experienced, unqualified man; half holiday; no Sunday work; comfortable, permanent job for suitable man. Please give fullest particulars, references and salary required. C. Stonelake, 5 Smith Street, Gt. Newbury.

DERBY.—Male or female Improver wanted, working-class district. Full particulars of experience and salary required to 54 St. Chad's Road, Derby.

LIVERPOOL.—Competent, qualified Manager for good-class Dispensing business, January; must be efficient, willing, obliging, trustworthy; abstainer; age 28 to 38. State experience, references, salary, photo. Letters only first instance. Muswell, Chemist, Garston, Liverpool. Letters unanswered 6 days declined.

LONDON, E..—Qualified Manager; must be used to busy industrial trade, with big N.H.I.; good at Counter and Displays; only really capable men need apply; house attached. Details of salary, age, experience, and when free to 157/32, Office of this Paper.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 60 to 100 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

LONDON, E.C.1..—Junior Assistant required, either ex; Dispensing essential. State age, experience and salary required. P.C.B. 87/27, Office of this Paper.

LONDON, E..—Experienced, unqualified Assistant required for quick Counter trade; married man preferred. State age, experience and salary required. The Secretary, Shadforth Prescription Service, Ltd., 65 Grove Road, Bow, London, E.3.

LONDON.—Experienced, unqualified male Assistant; neat and reliable Dispenser and good Salesman. Please give full particulars of experience, age, and when disengaged. 160/5, Office of this Paper.

LONDON, N.W..—Junior Assistant; unqualified; between 20 and 25 years of age; must have had good experience in high-class business. Apply, giving full particulars, 159/38, Office of this Paper.

MIDLANDS.—Qualified Manager to open branch in busy market town; must be experienced in Family and Agricultural trade; good Counterman and Window-dresser essential. Full details, age, experience and salary to 157/321, Office of this Paper.

SHEFFIELD.—Experienced, qualified Assistant for high-class business, outdoor, age 25-35, for Front Counter and Window-dressing. Please state clearly in first letter age, height, where apprenticed, other experience, salary required, and enclose photo if possible. Address Mr. Austen, c/o Newsholme's, Ltd., Chemists, 27 High Street, Sheffield.

SHEFFIELD.—Immediately, unqualified Junior, 24-26, outdoors, no Sunday duty, for Counter; Photographic experience essential. Apply (letter only), giving full particulars of experience, enclose photo and state salary required, H. G. Williams, 115 The Moor.

SOUTH STAFFS..—Wanted, Unqualified Assistant (Man), about S 24; good worker; experience and references. Apply, usual particulars, 161/36, Office of this Paper.

STOCKPORT.—Wanted, young, unqualified Assistant; male; single; just out of apprenticeship preferred; outdoors; industrial district. State age, height, experience, salary required, references; photo if possible. "M.P.S.", 85 Wellington Road North, Stockport, Cheshire. (Applications not answered seven days declined with thanks.)

WEST-END.—A man with recent Continental experience; must speak French fluently. Kindly state age, height and salary required, to 160/40, Office of this Paper.

ASSISTANT, unqualified, either sex, for good-class business; smart appearance and pleasing manner essential. Send no stamps. Applications unanswered 5 days respectfully declined. Apply Matthews & Son, Chemists, 722 High Road, Leytonstone, Essex.

CAPABLE, qualified Assistant; 24; good references; Wood Riding preferred, but not essential. Gomersall, c/o 22 Fitzroy Street, Cambridge.

CAPABLE Assistant required, about 30 years, thoroughly experienced in all branches, excellent testimonials (recent), required; qualification not essential if absolutely competent. State salary. Applications not answered three days respectfully declined. 160/16, Office of this Paper.

JUNIOR, unqualified, wanted in about a month's time; capable Dispenser, with previous high-class Dispensing experience; opportunity of learning Optics. Applications from those already present employed treated strictly confidentially. Apply, by letter only, Kemp, Chemist-Optician, Muswell Hill, N.10.

JUNIOR Assistant required, with two or three years' experience. Apply, stating particulars, to Stockton Co-operative Society, Ltd., Drug Department, Wellington Street, Stockton-on-Tees.

JUNIOR Assistant, young, unqualified, for Counter, Dispensing and Window-dressing. State height, age, experience, and salary; photo if available. Gray, Chemist, 31 Broadway, High Street, Acton, W.3.

LADY Assistant, qualified, for brisk N.H.I. and Counter trade near Watford. State age, experience, and salary required in first letter. 159/22, Office of this Paper.

LEWIS & BURROWS have a vacancy for an unqualified Assistant (male). Apply 146 Holborn Bars, London, E.C.1.

MESSRS. DAVIES JOHN & ASPELL, of Bath, require a well-educated, experienced Assistant for their high-class Retail and Dispensing Business; age over 25 years. Please give age, height, salary required, and send photo in first letter; permanency if suitable.

QUALIFIED Optician required for town in Sussex; age 25 to 35; pharmaceutical qualification a advantage. Send full particulars of experience, references, salary required, and when disengaged, also photograph if possible, to Neathercoat, 61 Welbeck Street, London, W.1.

QUALIFIED, also Unqualified, Lady or Gentleman required; must be experienced and reliable; Window-dressers; comfortable situations; good prospects. Write full particulars, "M.P.S." 70 Crownfield Road, London, E.8.

QUALIFIED Manager required for old-established business in South-East London. Applications, stating age and salary required, to P.C.B. 88/2, Office of this Paper.

REQUIRED by December 2, Unqualified Assistant for high-class business; must possess thorough knowledge of high-class Dispensing. An Improver also wanted. Full particulars to Manager, E. B. Stamp, 29 High Street, Hampstead, N.W.3. Applications unanswered in four days respectfully declined.

REQUIRED, Junior Assistant, with knowledge of Dispensing; good scope for young and energetic man. Apply, with full particulars, age, experience and salary required, to 159/539, Office of this Paper.

REQUIRED, immediately, qualified Assistant for shop in East London; splendid opportunity for a keen worker. All particulars of previous experience, salary required, and date when free in first letter. 161/14, Office of this Paper.

RUSHFONS (CHEMISTS), LTD., 128 Southbank Road, Southport, require capable and energetic Manager for Branch Shop; must be accustomed to good-class Dispensing, Toilet and Photographic business. Apply by letter only, giving full particulars; references not to be enclosed in first letter. Applications not replied to within five days respectfully declined.

SMART Unqualified Male Assistant, age about 25, tall, used to brisk business; must be honest, accurate, energetic and willing; interview if desired. Full particulars to Venables, Chemists, 250 Brixton Road, S.W.9.

UNQUALIFIED Junior, good Dispenser, for busy working-class neighborhood in London; must be smart and reliable and not afraid of work. Particulars of age, salary, experience, and when free to 157/520, Office of this Paper.

UNQUALIFIED Assistant required, male, not over 30. State salary required and usual particulars to 162/50, Office of this Paper.

WANTED, immediately, Junior Assistant for S.W. London; one accustomed to middle-class trade and N.H.I. Dispensing. Will applicants please give full particulars of experience, also state wages required and when disengaged? 160/10, Office of this Paper.

WHOLESALE.

LONDON firm of Manufacturers, well known, desires to hear from energetic Traveller who could take over existing connection and add one or two lines with a view to operating subsidiary company; exceptional opportunity for a live man. Replies to P.C.B. 87/16, Office of this Paper.

LONDON.—Junior Assistant required for Wholesale Laboratory to assist in the Manufacture of Proprietary Lines and Packed Specialities; capable and efficient young man just finished apprenticeship preferred. Applications unanswered within 7 days respectfully declined. P.C.B. 87/33, Office of this Paper.

NORTH WALES AND CHESHIRE.—Prominent London Wholesale House requires experienced man to sell in above territory well-advertised Specialities to Chemists, Ironmongers, etc. Apply, stating age, experience, and salary required, 159/654, Office of this Paper.

ADVERTISING.—Compiler wanted by Wholesale Chemists for trade and medical printed matter; previous advertising experience necessary; age about 25 to 30; qualified or unqualified. State salary required and experience to 159/651, Office of this Paper.

GIRLS, with knowledge of Patents and Toilets, for Wholesale Warehouse in Acton district; good wages. Apply mornings, 53 John's Mews, Bedford Row, W.C.1.

BURGOYNE, BURBIDGES & CO., LTD., London, E.5, are requiring an additional Retail Representative for London and Greater London; previous town experience essential; qualification an advantage; permanent and progressive position for first-class man; salary and commission basis; car provided. Applications, which should be fully detailed, to be made by letter in first instance.

LEADING London Wholesale Chemists and Druggists, Sundries House, with established connection in Southend, Westcliff and district, require a Resident Representative; a splendid opportunity for a live man of experience; commission terms, and no objection to non-competitive agencies. State lines at present carried. 159/533, Office of this Paper.

PART-TIME Traveller wanted, calling on Chemists and high-class Hairdressers, for well-advertised Toilet and Beauty Preparations; on commission basis. Write, giving details of present line, commission required, and what district being covered, to Box 658, Streets, 8 Serie Street, W.C.2.

PILL and Tablet Maker required by South London Wholesale House. Apply, in writing, stating experience, etc., to 159/637, Office of this Paper.

REPRESENTATIVES required, full or part time; must be capable salesman, with good Retail connections and experience; good salary and commission to the right men. 159/532, Office of this Paper.

REPRESENTATIVES.—Successful Salesmen required for London and all territories to exploit non-competitive Proprietary; opportunity for excellent side line; liberal commission and bonus. Write, stating full particulars of experience, references, and present employers. Gliddon, Ltd., 14 Baker Street, London, W.1.

REPRESENTATIVES, with Chemists' connection, required to carry as side line, on commission basis, an elegant get-up of French Olive Oil in bottles and tins already well established on the market. Write, stating details of district covered, to "B." c/o Abbott's, Eastcheap, London, E.C.3.

REPRESENTATIVES, with first-class references, required for Toilet Preparations in Newcastle, Glasgow, Yorkshire, Bristol and Midlands; small salary, commission and expense. Write Box 1427, Rays, Cecil Court, London, W.C.2.

REPRESENTATIVES, with some experience of high-class Toilet Goods trade, preferably Soap and Perfumery, are required by a large non-combine House of repute; territories vacant New Year: West and Wales, Lancs and Yorks. West Riding and East Midlands. Our own representatives are advised of this insertion. Reply 159/638, Office of this Paper.

TABLET Machine Hand and Pill Maker required. Reply, giving full details of experience, and wages expected. Apply Cooper Laboratory, Ltd., Watford.

TRAVELLER, on commission, with good country connection with Chemists, to sell French-made Gillette pattern Safety Razor Blades. Apply, stating districts, P.C.B. 87/29, Office of this Paper.

TRAVELLERS wanted in all district, with good connections amongst high-class Chemists and Stores, for Sale of well-known Pure Italian Olive Oil Soap; good commission for good men. Apply BM/H J.R., London, W.C.1.

SUCCESSFUL Midlands Business (established 25 years), opening new Toilet, Perfumery and Salon Sundries Department, preparations for which have extended over 12 months, requires a Director Laboratory Manager for the Manufacturing Laboratories Department; with or without investment; must be capable of evolving a full series of high-class sound lines to eventually build up a sound business, with sales organising experience preferred. State age, qualifications, capabilities and salary required first letter (in confidence), to British Laqale, 57 Earl Street, Coventry.

£200-£400 a year added to your income, with unbounded possibilities, are awaiting you if you are an experienced, successful pioneer Salesman, able to devote time to an additional line which is already a proven regular 35% repeater; the line satisfies a universal demand, and its unique qualities immediately appeal to trade and public alike. Full details as to territory and experience in first application to 159/655, Office of this Paper.

(COLONIAL, INDIAN AND FOREIGN.)

EASTERN AFRICA.—Qualified Pharmacist wanted; age about 26 to 30; 5 years' agreement; quarters provided; passages paid. Write, stating qualifications, age, details of experience, send copy testimonials only, "M. W." c/o J. W. Vickers & Co., Ltd., 24 Austin Friars, E.C.2.

INDIA.—Messrs. Bathgate & Co., Wholesale and Retail Chemists, Calcutta, require a qualified Minor Assistant, age up to 25, single, with some experience as qualified Assistant; 4 years' agreement; passage paid out and home; salary, which starts from date of sailing, first year, Rs. 500 monthly (about £37 15s.); second year, Rs. 525 (about £39 12s. 6d.); third year, Rs. 550 (about £41 10s.); fourth year, Rs. 575 (about £43 7s. 6d.). Apply, giving particulars of experience, etc., to P.C.B. 87/14, Office of this Paper.

ITALIAN RIVIERA.—Qualified Assistant, with first-class references, aged 30 to 40, required early December to end March by leading Pharmacy; salary L.St. 16 per month; second class return London fare paid. Apply, with full particulars, to Farmacia R. Marozz, Bordighera (Italy).

SITUATIONS WANTED.

RETAIL [HOME].

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.A.A.—SCOT, unqualified Assistant, desires position; age 23; height 5 ft. 11 in.; 7 years' experience; good references. Reply P.C.B. 87/34, Office of this Paper.

A.A.A.—LONDON or Northern Counties. Qualified, 26, as Manager or Assistant; good and varied Dispensing, Counter, and Photographic experience; not afraid of hard work and can supply excellent references. Mason, 2 Bedford Cottages, Westgate-on-Sea.

A.A.—ASSISTANT; unqualified; 25; Dispensing, Counter, Photography; excellent Window-dresser; able to take charge; splendid references; Yorkshire preferred, not essential; free one month. "Chemist," 37 Bateman Street, Cambridge.

A.A.—QUALIFIED Chemist; 26; good all-round experience in London and provinces; as Manager or Assistant in good-class business in London; at liberty in two weeks. 157/180, Office of this Paper.

A.A.—QUALIFIED Chemist-Optician, 26, good appearance and address, 9 years' London and provincial experience, desires position in good-class business as Manager or Assistant; London only. 157/18, Office of this Paper.

A.A.—EXPERIENCED Assistant or Locum; Dispensing, Counter, Windows, Prescribing; competent; energetic. Harries, 262 South Lambeth Road, S.W.3.

A CAPABLE and fully experienced qualified Chemist; per- manency or Locum; disengaged; middle-aged. "Chemist," 415 High Road, Leytonstone, E.11.

A CAPABLE Assistant, unqualified, 28, desires permanency; Lancashire, Yorkshire or Midlands preferred; good all-round man; first-class references. "M. J." 13 Hangingwood Lane, Hebden Bridge, Yorkshire.

A CAPABLE and fully qualified Chemist; permanency or Locum; disengaged. 160/8, Office of this Paper.

A COMPETENT young lady, qualified, seeks situation; good Dispensing and Counter experience; excellent references. 159/11, Office of this Paper.

A MANAGERSHIP (town or country) required by efficient man (30); height over 6 ft.; well experienced (including West-End management); conscientious and well recommended. "Chemist," 23 Norland Square, W.11.

A MANAGER of a London Pharmacy seeks position offering more scope. age 25; height 5 ft. 10 in.; smart appearance; M.P.S.; capable Salesman, with all-round experience; specialising in Photography. 157/37, Office of this Paper.

AN Assistant, unqualified, requires permanency; 8 years' experience all branches; willing and conscientious; good references; locality immaterial. 161/35, Office of this Paper.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith, and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensues. Strict attention to this detail will be appreciated.

A QUALIFIED Chemist-Optician desires a situation in a good-class Dispensing business (West-End or City, not essential); aged 26; Public School education; keen and competent, possessing a sound knowledge and training in Dispensing, general Pharmacy, Optics and business routine; varied experience, N.H.I., Private and Counter; would prefer an interview; disengaged at present. Eric Smith, 58 Stockwell Park Crescent, S.W.3.

A YOUNG, energetic Chemist, with real business ability and carrying excellent references, desires permanency or Locum as Assistant; disengaged now; Midlands preferred, but not essential; start £4 10s. Your chance to get a trustworthy man. 161/28, Office of this Paper.

ACTIVE, capable and experienced Pharmacist desires position, Branch Manager, Relief or Locum. "Aconite," c/o Cripps & Son, Manufacturing Chemists, Hove.

ADVERTISER, qualified, seeks post as Manager or Head Assistant; steady; reliable; 11 years' experience; quick and accurate Dispenser, excellent Counterman, attractive Window-dresser; Photography; excellent references; moderate salary for permanency. "H. York," Stanfield, 110 Upper Villiers Street, Wolverhampton.

ALL-ROUND and first-class continuously experienced Locum desires post for a few weeks before Christmas; terms 4s. guineas weekly and return expenses. Pitt, 36 St. Stephen's Road, Norwich.

AN experienced qualified man; 9 years best West-End. "Chemist," 81-83 Arthur Road, Wimbledon Park.

AS Locum, relief, management, General Assistant; good experience Books, Buyer, Counter, Dispenser, Prescriber; used hury Paper, stores, multiple shops; "not registered." "G," 150 Scott-Ellis Gardens, N.W.8.

AS Manager or Locum; qualified; experienced; energetic; disengaged; tall. Perry, 26 Highborne Avenue, Upper Rushton Road, Thornbury, Bradford.

AS Manager or Superintendent of company; qualified; experienced; permanency desired; first-rate references; Midlands preferred; disengaged. 161/26, Office of this Paper.

ASSISTANT; unqualified; country or suburbs preferred; 23 years' all-round experience; good credentials. "Chemists," 69 Upper Richmond Road, Putney.

ASSISTANT, unqualified, 26, disengaged, requires post; experienced. "G. F.," 9 Solon Road, Brixton, S.W.2.

ASSISTANT; unqualified Dispenser; quick N.H.I., Counter; abstainer; disengaged; permanent or Locum; recommended. "W.," 364 Dickenson Road, Longsight, Manchester.

ASSISTANT; 19; tall; just finished apprenticeship, with experience in Counter, Dispensing and Photographic. Whitmore, Church Street, Countesthorpe, Leicester.

ASSISTANT (Part I), age 24, tall, good appearance and address, accurate Dispenser, used to Counter, seeks position. P. Spencer, 16 Versailles Road, Anerley, S.E.

ASSISTANT; capable; 35; unqualified; good all-round experience, including Window-dressing; excellent references. "Aspirin," 65 Abbeville Road, Clapham.

ASSISTANT; 23; first-class experience; good references; disengaged when suited. "F. H.," 19 Withnell Road, Broadgreen, Liverpool.

ASSISTANT, young, qualified, seeks post; good Dispenser; first-class experience; excellent references; disengaged. Carrington, Long Meadow, Bakewell.

ASSISTANT or Manager; experienced, trustworthy and reliable; good references; middle age; disengaged; unqualified. Taylor, 2 Allestree Road, Fulham, S.W.

ASSISTANT or Surgeon's Dispenser; Birmingham preferred, but not essential; highest references; unqualified. "G.," 241 Seven Sisters Road, N.4.

ASSISTANT, desirous of obtaining really genuine progressive berth, not necessarily barring Drug Stores. Wholesale, or confined to England, with 2 years' varied experience and good education and appearance, will entertain any reasonable offer; salary offered and particulars in first letter essential. 160/13, Office of this Paper.

ASSISTANT, unqualified, desires permanent, progressive position; accurate and quick Dispenser, Counter, Window-dressing, Photography and Veterinary; 51 years' experience; South or South Midlands preferred. 139/36, Office of this Paper.

ASSISTANT, 20, suburban and West-End experience, capable, seeks change. 161/29, Office of this Paper.

BRANCH Manager; qualified; thoroughly experienced; provincial/London; recommended R.P.U.; disengaged (unavoidably); any locality. "J.", 109 Easton Road, Bristol.

CAPABLE Assistant; unqualified; 26; permanency or period; seven years' Retail, three years' Hospital experience; good references; Drug Store Managership entertained. Glasgow, 7 Little Castle Street, Truro, Cornwall.

CAPABLE Assistant; 37; unqualified; disengaged; excellent experience; Dispensing, Counter, Photography; good references. "F. G.", 158/6, Office of this Paper.

CARDIFF or suburbs; qualified, young, tall, Welsh, desires position as Manager; excellent experience and references. 162/36, Office of this Paper.

CHEMIST; qualified; disengaged; good experience; highest references; moderate salary. 161/23, Office of this Paper.

DISENGAGED; qualified; first-class and all-round experience; good Dispenser; accustomed brisk N.H.I. and Institution work; Locum or permanency. "M.P.S.", 156 Lower Clapton Road, E.5.

DISENGAGED; qualified; middle-age; Locum or permanency; Dispenser or Manager; excellent references. "Chemist", Flat 2, 6 Colville Mansions, Powis Terrace, Bayswater, W.

DISPENSER-BOOK-KEEPER; qualified; experienced; disengaged; Ultra-Violet Ray administration; drive car; go anywhere. "Dispenser," "Manor," Crickett, Ilminster.

HOSPITAL Nurse, young and capable, requires position in Surgical Department of Chemist's or Stores; London preferred; free now. 157/27, Office of this Paper.

JUNIOR desires position, good-class business; excellent dispensing experience; West End, country; disengaged. Hunter, 5 Bryanston Street, W.

JUNIOR Assistant; good all-round experience, including Photography and Window-dressing; Highgate district preferred; free December 1. 160/12, Office of this Paper.

LADY Dispenser-Book-keeper, qualified, requires part- or whole-time post; good experience. Tye, 93 Heavitt Road, Plumstead.

LADY Dispenser (Hall), experienced, desires post; Preston or near. Miss Rawcliffe, 187 Watling Road, Fulwood, Preston, Lancs.

LADY Assistant, unqualified, tall, 23, desires permanency; Richmond or district preferred. Smith, 142 Kew Road, Richmond, Surrey.

LADY (Hall), excellent Counter and Dispensing experience, Window-dressing, desires change. "J. M.", 24 Rowan Road, W.6.

LADY; unqualified; energetic; accustomed to quick Counter and Dispensing business; free now. "B. W.", 43 Third Avenue, Queen's Park, W.5.

LADY, 23, qualified, requires Locum or permanency in Pharmacy or Institution; good references; 4 years' London experience. 161/32, Office of this Paper.

LOCUM or Emergency; qualified; age 40 years; highest credentials; active and industrious; abstainer; disengaged November 8. "Pharmacist," 16 Blacklands Road, Clarendon, S.E.6.

LONDON—Qualified Manager or position of trust; elderly; L. abstainer; able; experienced; energetic. Thomas, 37 Downs Road, Clapton, E.5. Phone: Clissold 9324.

LONDON—Elderly, qualified, experience and ability; Assistant or Superintendent. White, 13 Marquess Road, N.J. Phone Clissold 6132.

M.P.S., F.B.O.A., registered J.C.Q.O., desires permanency (30) as Manager; Dispensing, Photo and Optics. Further particulars, "Yorks", 152/19, Office of this Paper.

M.P.S.: 25; tall, 5 ft. 11 in.; London or Senior Assistant; 7½ years' all-round experience, including London. Thomas, 43 Grosvenor Road, Aldershot.

M.P.S. desires position as Manager in or near London; nothing under £2,000 a year, please; last situation as manager, held 4 years; age 29. 159/17, Office of this Paper.

M.P.S.—Manager or Assistant; 26; varied experience; ability and initiative; City or West-End preferred. "Bic", 87 Albert Street, Regent's Park, N.W.1.

M.P.S., 22, 6 H. Square trained, desires post in London; West-End preferred, not essential; used to high-class Pharmacy; interview any time. W. Morgan Thompson, c/o Central Y.M.C.A., Great Russell Street, W.C.1.

M.P.S., F.M.C.C., J.C.Q.O., age 27, employed in West-End Pharmacy, desires Optical work, repairs or testing, on mid-week half-day. Cawle, 9 Ladbroke Gardens, W.11.

M.P.S., 31, disengaged, seeks post, Manager, Assistant Locum; anywhere; moderate salary; recently disposed own business. 160/14, Office of this Paper.

PART-TIME—Student requires evening work in London; good Counter and excellent Dispensing experience. Barker, 15 Clitheroe Road, S.W.9.

POSITION required by elderly Pharmacist; active; good Prescriber; many years as Manager. "L.", 25 Lower Villiers Street, Wolverhampton.

QUALIFIED; elderly; widower; 20 years own business; last post 13 months, Branch Manager; business sold; previous locum and 15 months manager in Leicester; good Buyer, Stock-taker and keeper; all-round experience; accurate Dispenser; good Prescriber; undeniable references; active; reliable; Locum or permanent Managership required; outdoors. Roberts, c/o Thrie, The Old Docks, Sharpness, Glos.

QUALIFIED, 24, desires post (Locum or permanency), preferably Leeds or district, but not essential. "Chemist", 14 Roundhay Mount, Leeds.

QUALIFIED lady, 24, disengaged, requires position; good Counter experience. Dispensing and Photography; highest references; London district preferred. 157/24, Office of this Paper.

QUALIFIED Manager; permanency or Locum; competent; reliable; over 20 years' experience, mostly West-End; disengaged. "Pharmacist," 81 Camden Road, N.W.1.

QUALIFIED (Manager, City business 31 years, leave now sold) seeks engagement. Adam, 31 The Vineyard, Richmond, Surrey.

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QUALIFIED; 32; permanent or Locum; disengaged; Managership or Assistant; references; experienced throughout. Griffiths, Chemist, Hemlan, Cardf.

QUALIFIED, male (23), desires permanency as Manager or Assistant; energetic; 6 ft.; excellent references; good experience; good Counterman, Dispenser, etc. "Midvale," Lower Fair View, Dartmouth.

QUALIFIED—24; 6 years' all-round experience; Window-dressing, Counter, Dispensing; disengaged. Temperton, 101 St. Mark's Road, Enfield.

QUALIFIED, young, experienced, including Photography, requires responsible position; Branch Manager or Assistant; good and reliable credentials. 160/28, Office of this Paper.

QUALIFIED; F.S.M.C.; 28; tall; five years' reference; Manager; London, City, West-End experience. 160/32, Office of this Paper.

QUALIFIED (27) desires position as Manager; 7½ years' experience in London and provinces; at present managing in London. 161/1, Office of this Paper.

QUALIFIED (26) seeks post as Assistant, Manager or Locum; disengaged; good Dispenser; excellent pharmaceutical training. 161/17, Office of this Paper.

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